XA02407F-A/00/EN/03.22-00
71586602
2022-09-26

Safety Instructions
Micropilot FMR50/51/52/53/54/56/57

PROFIBUS PA, FOUNDATION Fieldbus

Associated Safety Instructions (XA) on page 4

Endress+Hauser
People for Process Automation

Micropilot FMR50/51/52/53/54/56/57

PROFIBUS PA, FOUNDATION Fieldbus

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Associated documentation

This document is an integral part of the following Safety Instructions:

ATEX, IECEx:
XA00685F/00

UK:
XA02391F/00

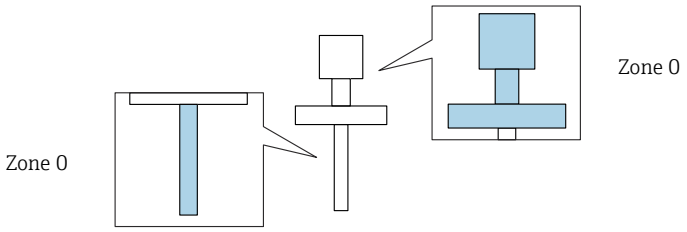
NEPSI:
XA01208F/00

INMETRO:
XA01296F/00

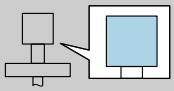
KC:
XA01047F/00

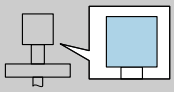
EAC:
XA01385F/00

Zone 0: 1 channel *Position 3 = E, G*: 1 channel used

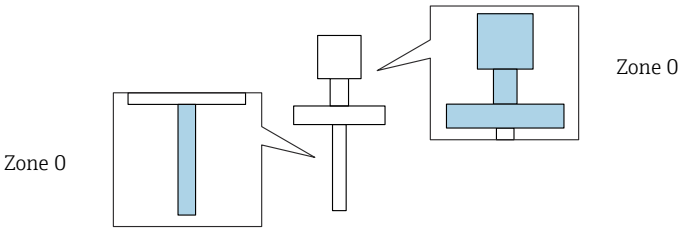


FMR5x

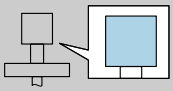
 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–20	48	48	48	60	42	60	–20	–20	–20	–	–
		T5	–20	58	58	58	60	57	60	–20	–20	–20	–	–
		T4	–20	60	60	60	60	60	60	–20	–20	–20	–	–

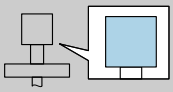
 = *B, C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–20	48	48	48	60	45	60	–20	–20	–20	–	–
		T5	–20	60	60	60	60	60	60	–20	–20	–20	–	–

Zone 0: 2 channels *Position 3 = E, G*: 2 channels used

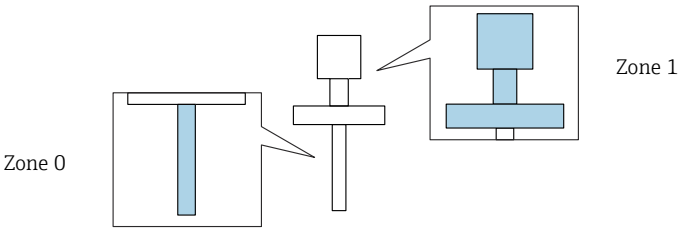


FMR5x

 = *A*	**(2)**		**P1**		**P2**		**P3**		**P4**		**P5**		**P6**	
			T_p	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**
	E, G	T6	–20	39	39	39	60	34	60	–20	–20	–20	–	–
		T5	–20	51	51	51	60	49	60	–20	–20	–20	–	–
		T4	–20	56	56	56	60	55	60	–20	–20	–20	–	–

 = *B, C*	**(2)**		**P1**		**P2**		**P3**		**P4**		**P5**		**P6**	
			T_p	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**
	E, G	T6	–20	45	45	45	60	42	60	–20	–20	–20	–	–
		T5	–20	57	57	57	60	57	60	–20	–20	–20	–	–
		T4	–20	60	60	60	60	60	60	–20	–20	–20	–	–

Zone 0, Zone 1: 1 channel *Position 3 = E, G*: 1 channel used



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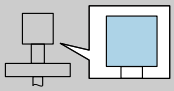
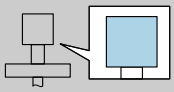
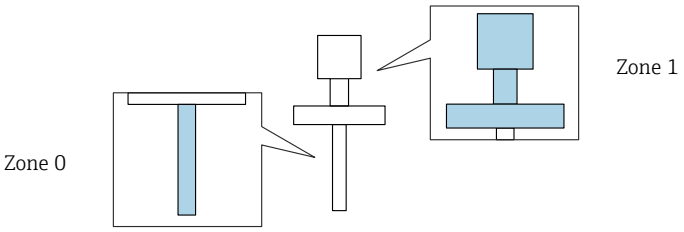
 = *A*	**(1)**		**P1**		**P2**		**P3**		**P4**		**P5**		**P6**	
			T_p	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**
	E, G	T6	–20	58	58	58	58	58	58	–40	–20	–40	–	–
		T5	–20	73	60	73	60	73	60	–40	–20	–40	–	–
		T4	–20	74	60	74	60	74	60	–40	–20	–40	–	–

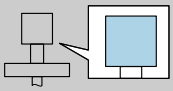
 = *B, C*	**(1)**		**P1**		**P2**		**P3**		**P4**		**P5**		**P6**	
			T_p	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**	**T_p**	**T_a**
	E, G	T6	–20	60	60	60	60	60	60	–40 –50 [1]	–20	–40 –50 [1]	–	–
		T5	–20	75	60	75	60	75	60	–40 –50 [1]	–20	–40 –50 [1]	–	–
		T4	–20	80	60	80	60	80	60	–40 –50 [1]	–20	–40 –50 [1]	–	–

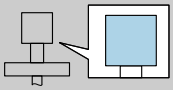
1) Only in connection with Optional specification, ID Jx = JN

Zone 0, Zone 1: 2 channels *Position 3 = E, G*: 2 channels used



FMR5x

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–20	51	51	51	60	49	60	–40	–20	–40	–	–
		T5	–20	56	56	56	60	55	60	–40	–20	–40	–	–

 = *B, C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–20	57	57	57	57	57	57	–40 –50 [1]	–20	–40 –50 [1]	–	–
		T5	–20	72	60	72	60	72	60	–40 –50 [1]	–20	–40 –50 [1]	–	–
		T4	–20	76	60	76	60	76	60	–40 –50 [1]	–20	–40 –50 [1]	–	–

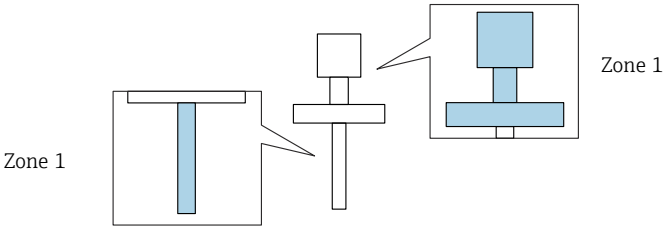
1) Only in connection with Optional specification, ID Jx = JN

Zone 1: 1 channel

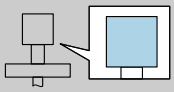
Position 3 = E, G: 1 channel used

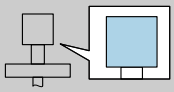
Page references to the temperature tables of the respective device types: See the following list.

- FMR50 → 🖹 9
- FMR51 → 🖹 10
- FMR52 → 🖹 13
- FMR53 → 🖹 15
- FMR54 → 🖹 17
- FMR56 → 🖹 22
- FMR57 → 🖹 23

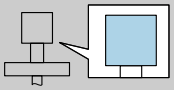


FMR50

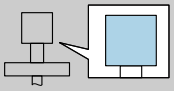
 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	58	58	58	80	55	80	–40	–40	–40	–	–

 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

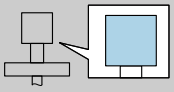
FMR51

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	49	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	64	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	58	135	–40	–40	–40	–	–
		T3 [1]	–40	74	74	74	150	55	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

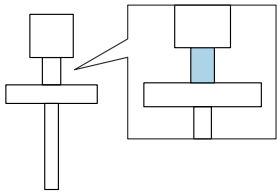
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	69	135	–40	–40	–40	–	–
		T3 [1]	–40	80	81	80	150	66	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

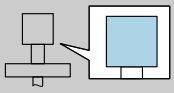
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	71	135	–40	–40	–40	–	–
		T3 [1]	–40	80	81	80	150	68	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

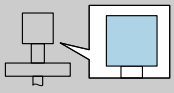
FMR51



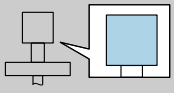
= D3

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	69	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	64	135	–40	–40	–40	–	–
		T3	–40	74	74	74	200	55	200	–40	–40	–40	–	–
		T2 [1]	–40	74	74	74	250	44	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

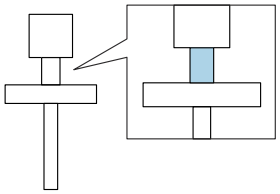
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	75	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	68	200	–40	–40	–40	–	–
		T2 [1]	–40	80	81	80	250	63	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

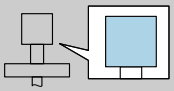
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	76	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	71	200	–40	–40	–40	–	–
		T2 [1]	–40	80	81	80	250	67	250	–40	–40	–40	–	–

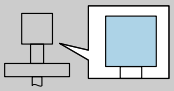
1) Functional: Maximum permissible process temperature

FMR51

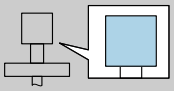


= D2

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	52	85	–40	–40	–40	–196	9
		T5	–196	74	74	74	100	67	100	–40	–40	–40	–196	9
		T4	–196	74	74	74	135	62	135	–40	–40	–40	–196	9
		T3	–196	74	74	74	200	49	200	–40	–40	–40	–196	9

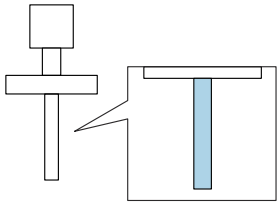
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	56	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T5	–196	75	75	75	100	71	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T4	–196	80	81	80	135	73	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T3	–196	80	81	80	200	64	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T2	–196	80	81	80	300	50	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15

1) Only in connection with Optional specification, ID Jx = JN

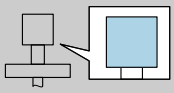
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	57	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T5	–196	75	75	75	100	72	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T4	–196	80	81	80	135	75	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T3	–196	80	81	80	200	68	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T2	–196	80	81	80	300	57	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T1	–196	80	81	80	450	39	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]

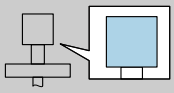
1) Only in connection with Optional specification, ID Jx = JN

FMR52

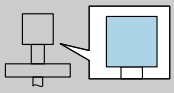


= BO

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	51	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	66	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	60	135	–40	–40	–40	–	–
		T3	–40	74	74	74	200	42	200	–40	–40	–40	–	–

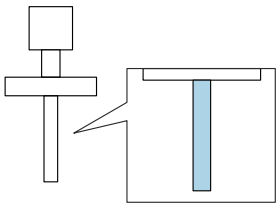
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	55	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T5	–196	75	75	75	100	70	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T4	–196	80	81	80	135	71	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T3	–196	80	81	80	200	60	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3

1) Only in connection with Optional specification, ID Jx = JN

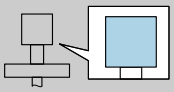
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	56	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T5	–196	75	75	75	100	71	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T4	–196	80	81	80	135	73	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T3	–196	80	81	80	200	64	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14

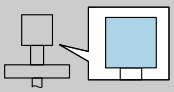
1) Only in connection with Optional specification, ID Jx = JN

FMR52

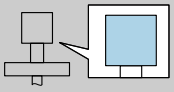


= BP

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	49	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	64	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	59	135	–40	–40	–40	–	–
		T3	–40	74	74	74	200	36	200	–40	–40	–40	–	–

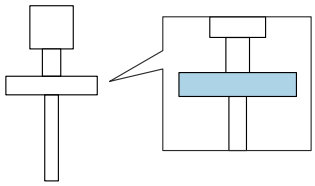
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T5	–196	75	75	75	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T4	–196	80	81	80	135	69	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T3	–196	80	81	80	200	56	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10

1) Only in connection with Optional specification, ID Jx = JN

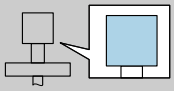
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	55	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T5	–196	75	75	75	100	70	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T4	–196	80	81	80	135	72	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T3	–196	80	81	80	200	61	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8

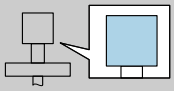
1) Only in connection with Optional specification, ID Jx = JN

FMR53

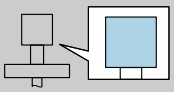


= RxF

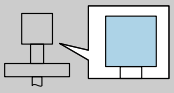
 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	58	58	58	80	55	80	–40	–40	–40	–	–

 = *B, C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

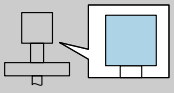
FMR53

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	48	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	63	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	58	135	–40	–40	–40	–	–
		T3 [1]	–40	74	74	74	150	54	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

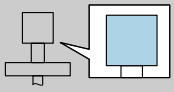
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	68	135	–40	–40	–40	–	–
		T3 [1]	–40	80	81	80	150	65	150	–40	–40	–40	–	–

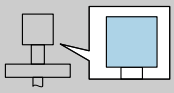
1) Functional: Maximum permissible process temperature

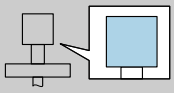
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	70	135	–40	–40	–40	–	–
		T3 [1]	–40	80	81	80	150	67	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

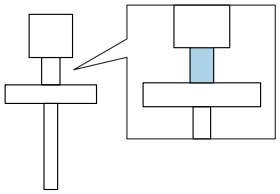
FMR54

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	48	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	63	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	57	135	–40	–40	–40	–	–

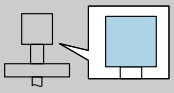
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	67	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	52	200	–40	–40	–40	–	–

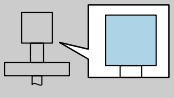
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	70	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	57	200	–40	–40	–40	–	–

FMR54

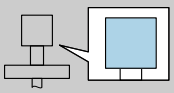


= D1

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	51	85	–40	–40	–40	–196	18
		T5	–196	74	74	74	100	66	100	–40	–40	–40	–196	18
		T4	–196	74	74	74	135	61	135	–40	–40	–40	–196	18
		T3	–196	74	74	74	200	42	200	–40	–40	–40	–196	18

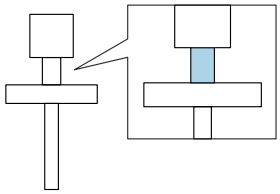
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	55	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T5	–196	75	75	75	100	70	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T4	–196	80	81	80	135	71	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T3	–196	80	81	80	200	60	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T2 [2]	–196	80	81	80	280	46	280	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4

1) Only in connection with Optional specification, ID Jx = JN
2) Functional: Maximum permissible process temperature

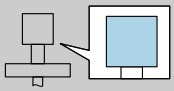
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	56	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T5	–196	75	75	75	100	71	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T4	–196	80	81	80	135	73	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T3	–196	80	81	80	200	64	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T2 [2]	–196	80	81	80	280	53	280	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15

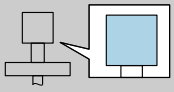
1) Only in connection with Optional specification, ID Jx = JN
2) Functional: Maximum permissible process temperature

FMR54

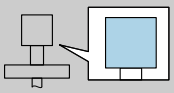


= D2

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	52	85	–40	–40	–40	–196	11
		T5	–196	74	74	74	100	67	100	–40	–40	–40	–196	11
		T4	–196	74	74	74	135	62	135	–40	–40	–40	–196	11
		T3	–196	74	74	74	200	47	200	–40	–40	–40	–196	11

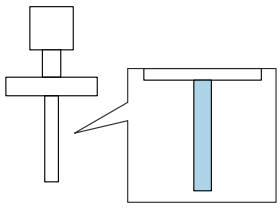
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	60	60	60	85	56	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T5	–196	75	75	75	100	71	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T4	–196	80	81	80	135	73	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T3	–196	80	81	80	200	63	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T2	–196	80	81	80	300	48	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T1 [2]	–196	80	81	80	400	31	400	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13

1) Only in connection with Optional specification, ID Jx = JN
2) Functional: Maximum permissible process temperature

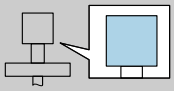
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	−196	60	60	60	85	57	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T5	−196	75	75	75	100	72	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T4	−196	80	81	80	135	74	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T3	−196	80	81	80	200	67	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T2	−196	80	81	80	300	55	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T1 [2]	−196	80	81	80	400	42	400	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]

1) Only in connection with Optional specification, ID Jx = JN
2) Functional: Maximum permissible process temperature

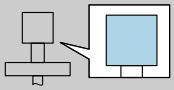
FMR54



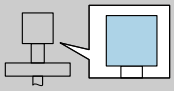
= Dx

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	50	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	65	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	60	135	–40	–40	–40	–	–
		T3 [1]	–40	74	74	74	150	57	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

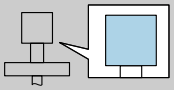
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	71	135	–40	–40	–40	–	–
		T3 [1]	–40	80	81	80	150	68	150	–40	–40	–40	–	–

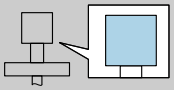
1) Functional: Maximum permissible process temperature

 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	73	135	–40	–40	–40	–	–
		T3 [1]	–40	80	81	80	150	71	150	–40	–40	–40	–	–

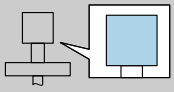
1) Functional: Maximum permissible process temperature

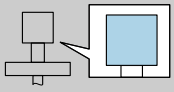
FMR56

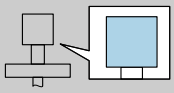
 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	58	58	58	80	55	80	–40	–40	–40	–	–

 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

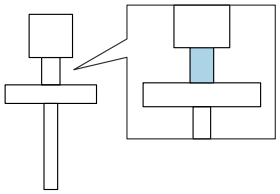
FMR57

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	74	74	74	100	68	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	63	135	–40	–40	–40	–	–
		T3	–40	74	74	74	200	53	200	–40	–40	–40	–	–

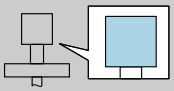
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	74	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	66	200	–40	–40	–40	–	–

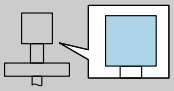
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	75	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	69	200	–40	–40	–40	–	–

FMR57

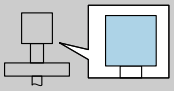


= D4

 = *A*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	58	58	58	85	54	85	–40	–40	–40	–	–
		T5	–40	73	73	73	100	69	100	–40	–40	–40	–	–
		T4	–40	74	74	74	135	65	135	–40	–40	–40	–	–
		T3	–40	74	74	74	200	57	200	–40	–40	–40	–	–
		T2	–40	74	74	74	300	37	300	–40	–40	–40	–	–

 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	76	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	70	200	–40	–40	–40	–	–
		T2	–40	80	81	80	300	61	300	–40	–40	–40	–	–
		T1 [1)]	–40	80	81	80	400	51	400	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	80	81	80	135	77	135	–40	–40	–40	–	–
		T3	–40	80	81	80	200	72	200	–40	–40	–40	–	–
		T2	–40	80	81	80	300	65	300	–40	–40	–40	–	–
		T1 [1)]	–40	80	81	80	400	58	400	–40	–40	–40	–	–

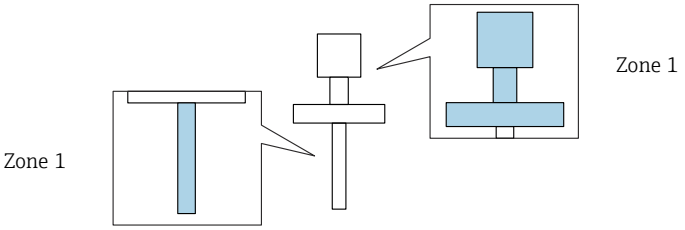
1) Functional: Maximum permissible process temperature

Zone 1: 2 channels

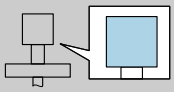
Position 3 = E, G: 2 channels used

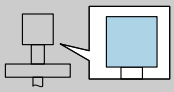
Page references to the temperature tables of the respective device types: See the following list.

- FMR50 → 📄 25
- FMR51 → 📄 26
- FMR52 → 📄 29
- FMR53 → 📄 31
- FMR54 → 📄 33
- FMR56 → 📄 37
- FMR57 → 📄 38

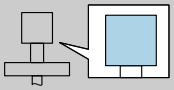


FMR50

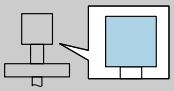
 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	80	47	80	–40	–40	–40	–	–

 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	80	55	80	–40	–40	–40	–	–

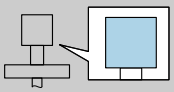
FMR51

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	43	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	45	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	37	135	–40	–40	–40	–	–
		T3 [1]	–40	56	56	56	150	33	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

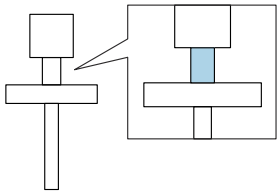
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	51	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	66	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	63	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	60	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

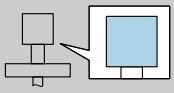
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	52	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	67	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	65	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	63	150	–40	–40	–40	–	–

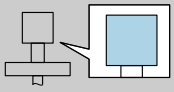
1) Functional: Maximum permissible process temperature

FMR51

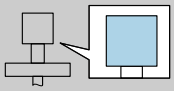


= D3

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	46	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	50	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	45	135	–40	–40	–40	–	–
		T3	–40	56	56	56	200	35	200	–40	–40	–40	–	–

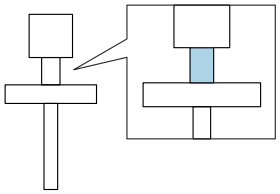
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	54	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	69	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	69	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	62	200	–40	–40	–40	–	–
		T2 [1)]	–40	76	76	76	250	57	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	55	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	70	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	71	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	65	200	–40	–40	–40	–	–
		T2 [1)]	–40	76	76	76	250	61	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

FMR51



= D2

= *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	51	51	51	85	45	85	–40	–40	–40	–196	9
		T5	–196	56	56	56	100	48	100	–40	–40	–40	–196	9
		T4	–196	56	56	56	135	42	135	–40	–40	–40	–196	9
		T3	–196	56	56	56	200	30	200	–40	–40	–40	–196	9

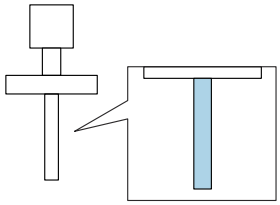
= *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T5	–196	72	72	72	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T4	–196	76	76	76	135	67	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T3	–196	76	76	76	200	59	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T2	–196	76	76	76	300	45	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15

1) Only in connection with Optional specification, ID Jx = JN

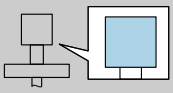
= *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T5	–196	72	72	72	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T4	–196	76	76	76	135	69	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T3	–196	76	76	76	200	62	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T2	–196	76	76	76	300	51	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T1	–196	76	76	76	450	35	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]

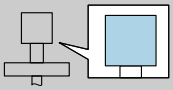
1) Only in connection with Optional specification, ID Jx = JN

FMR52

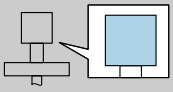


= BO

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	44	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	47	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	39	135	–40	–40	–40	–	–

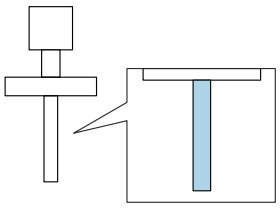
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	53	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T5	–196	72	72	72	100	68	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T4	–196	76	76	76	135	65	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T3	–196	76	76	76	200	54	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3

1) Only in connection with Optional specification, ID Jx = JN

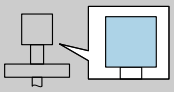
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	53	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T5	–196	72	72	72	100	68	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T4	–196	76	76	76	135	67	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T3	–196	76	76	76	200	58	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14

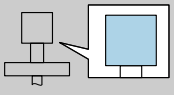
1) Only in connection with Optional specification, ID Jx = JN

FMR52

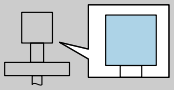


= BP

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	43	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	46	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	37	135	–40	–40	–40	–	–

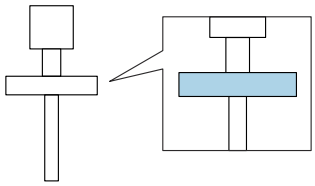
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	52	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T5	–196	72	72	72	100	67	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T4	–196	76	76	76	135	63	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T3	–196	76	76	76	200	50	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10

1) Only in connection with Optional specification, ID Jx = JN

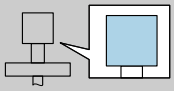
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	53	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T5	–196	72	72	72	100	68	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T4	–196	76	76	76	135	66	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T3	–196	76	76	76	200	55	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8

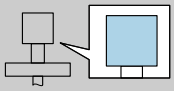
1) Only in connection with Optional specification, ID Jx = JN

FMR53

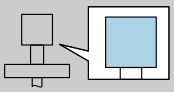


= RxF

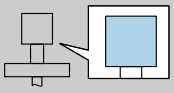
 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	80	47	80	–40	–40	–40	–	–

 = *B, C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	80	55	80	–40	–40	–40	–	–

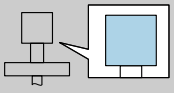
FMR53

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	42	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	45	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	36	135	–20	–40	–40	–	–
		T3 [1]	–40	56	56	56	150	32	150	–20	–40	–40	–	–

1) Functional: Maximum permissible process temperature

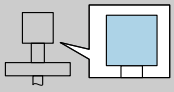
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	51	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	66	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	62	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	58	150	–40	–40	–40	–	–

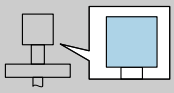
1) Functional: Maximum permissible process temperature

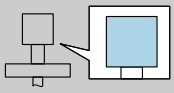
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	52	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	67	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	64	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	62	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

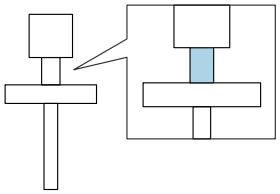
FMR54

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	42	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	45	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	35	135	–40	–40	–40	–	–

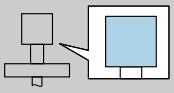
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	51	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	66	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	61	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	45	200	–40	–40	–40	–	–

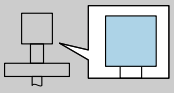
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	52	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	67	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	64	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	51	200	–40	–40	–40	–	–

FMR54

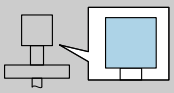


= D1

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	51	51	51	85	44	85	–40	–40	–40	–196	18
		T5	–196	56	56	56	100	47	100	–40	–40	–40	–196	18
		T4	–196	56	56	56	135	40	135	–40	–40	–40	–196	18

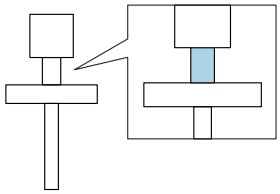
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	53	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T5	–196	72	72	72	100	68	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T4	–196	76	76	76	135	65	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T3	–196	76	76	76	200	54	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4
		T2 [2]	–196	76	76	76	280	41	280	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–4

1) Only in connection with Optional specification, ID Jx = JN
2) Functional: Maximum permissible process temperature

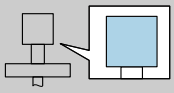
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T5	–196	72	72	72	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T4	–196	76	76	76	135	67	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T3	–196	76	76	76	200	59	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T2 [2]	–196	76	76	76	280	48	280	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15

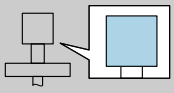
1) Only in connection with Optional specification, ID Jx = JN
2) Functional: Maximum permissible process temperature

FMR54

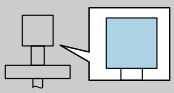


= D2

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	51	51	51	85	45	85	–40	–40	–40	–196	11
		T5	–196	56	56	56	100	48	100	–40	–40	–40	–196	11
		T4	–196	56	56	56	135	41	135	–40	–40	–40	–196	11

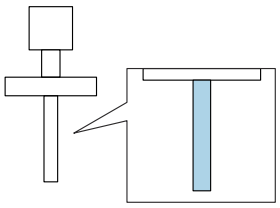
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	53	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T5	–196	72	72	72	100	68	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T4	–196	76	76	76	135	67	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T3	–196	76	76	76	200	57	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T2	–196	76	76	76	300	43	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13

1) Only in connection with Optional specification, ID Jx = JN

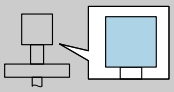
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–196	57	57	57	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T5	–196	72	72	72	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T4	–196	76	76	76	135	69	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T3	–196	76	76	76	200	61	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T2	–196	76	76	76	300	49	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T1 [2]	–196	76	76	76	400	38	400	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]

1) Only in connection with Optional specification, ID Jx = JN
2) Functional: Maximum permissible process temperature

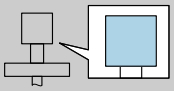
FMR54



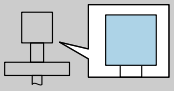
= Dx

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	44	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	47	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	39	135	–40	–40	–40	–	–
		T3 [1]	–40	56	56	56	150	36	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

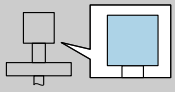
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	52	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	67	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	65	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	62	150	–40	–40	–40	–	–

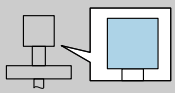
1) Functional: Maximum permissible process temperature

 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	53	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	68	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	67	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	65	150	–40	–40	–40	–	–

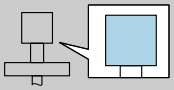
1) Functional: Maximum permissible process temperature

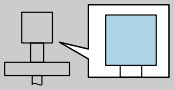
FMR56

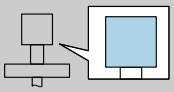
 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	80	47	80	–40	–40	–40	–	–

 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	80	55	80	–40	–40	–40	–	–

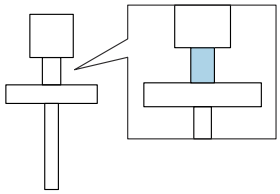
FMR57

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	46	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	49	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	43	135	–40	–40	–40	–	–
		T3	–40	56	56	56	200	33	200	–40	–40	–40	–	–

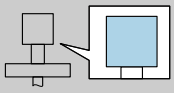
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	54	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	69	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	68	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	61	200	–40	–40	–40	–	–

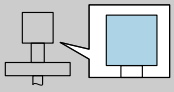
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	55	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	70	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	70	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	64	200	–40	–40	–40	–	–

FMR57

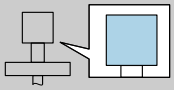


= D4

 = *A*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	51	51	51	85	47	85	–40	–40	–40	–	–
		T5	–40	56	56	56	100	50	100	–40	–40	–40	–	–
		T4	–40	56	56	56	135	46	135	–40	–40	–40	–	–
		T3	–40	56	56	56	200	37	200	–40	–40	–40	–	–

 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	55	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	70	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	70	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	64	200	–40	–40	–40	–	–
		T2	–40	76	76	76	300	55	300	–40	–40	–40	–	–
		T1 [1)]	–40	76	76	76	400	46	400	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	E, G	T6	–40	57	57	57	85	55	85	–40	–40	–40	–	–
		T5	–40	72	72	72	100	70	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	71	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	67	200	–40	–40	–40	–	–
		T2	–40	76	76	76	300	60	300	–40	–40	–40	–	–
		T1 [1)]	–40	76	76	76	400	52	400	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

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