XA02402F-A/00/EN/03.22-00
71586594
2022-09-26

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

4-20 mA HART

Associated Safety Instructions (XA) on page 4

Endress+Hauser
People for Process Automation

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

4-20 mA HART

Table of contents

Associated documentation

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

ATEX, IECEx:
XA00680F/00

UK:
XA02386F/00

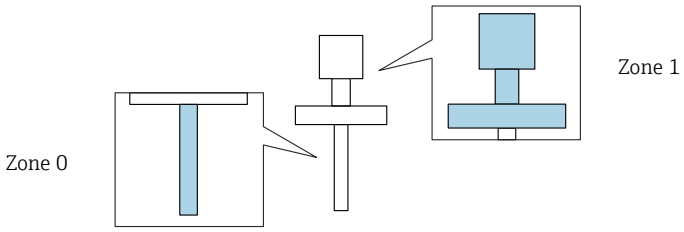
NEPSI:
XA01202F/00

INMETRO:
XA01292F/00

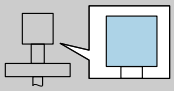
KC:
XA01046F/00

EAC:
XA01386F/00

Zone 0, Zone 1: 1 channel *Position 3 = A, B, C, K, L*: 1 channel used

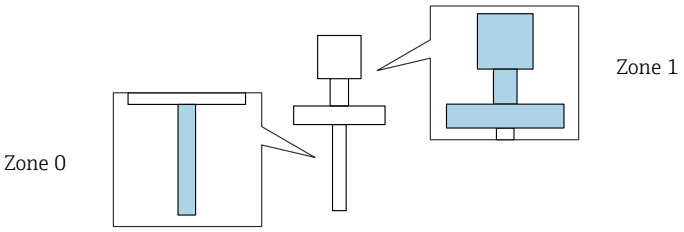


FMR5x

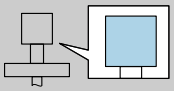
 = *B, C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–20	60	60	60	60	60	60	–40 –50 [1]	–20	–40 –50 [1]	–	–
		T5	–20	75	60	75	60	75	60	–40 –50 [1]	–20	–40 –50 [1]	–	–
		T4	–20	80	60	80	60	80	60	–40 –50 [1]	–20	–40 –50 [1]	–	–
	K, L	T6	–20	60	60	60	60	60	60	–40	–20	–40	–	–
		T5	–20	75	60	75	60	75	60	–40	–20	–40	–	–
		T4	–20	76	60	76	60	76	60	–40	–20	–40	–	–

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

Zone 0, Zone 1: 2 channels *Position 3 = B, C*: 2 channels used



FMR5x

 = *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
	B	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]	–	–
	C	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	78	60	78	60	78	60	–40 –50 [1]	–20	–40 –50 [1]	–	–

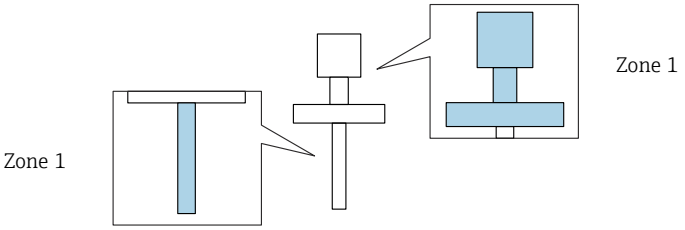
1) Only in connection with Optional specification, ID Jx = JN

Zone 1: 1 channel

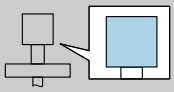
Position 3 = A, B, C, K, L: 1 channel used

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

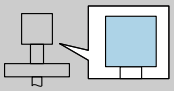
- FMR50 → 🖹 7
- FMR51 → 🖹 8
- FMR52 → 🖹 12
- FMR53 → 🖹 14
- FMR54 → 🖹 16
- FMR56 → 🖹 22
- FMR57 → 🖹 23



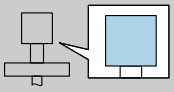
FMR50

 = *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
	A, B, C	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

FMR51

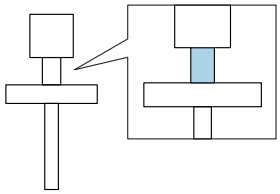
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	68	135	–40	–40	–40	–	–
		T3 [1]	–40	80	80	80	150	65	150	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	64	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	61	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

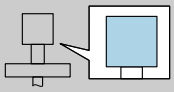
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	70	135	–40	–40	–40	–	–
		T3 [1]	–40	80	80	80	150	68	150	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	66	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	64	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

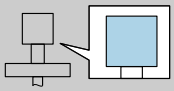
FMR51



= D3

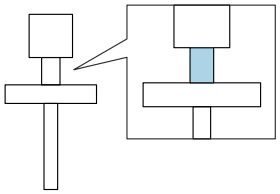
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	74	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	67	200	–40	–40	–40	–	–
		T2 [1]	–40	80	80	80	250	62	250	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	70	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	63	200	–40	–40	–40	–	–
		T2 [1]	–40	76	76	76	250	58	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

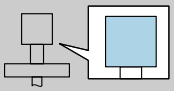
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	75	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	70	200	–40	–40	–40	–	–
		T2 [1]	–40	80	80	80	250	66	250	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	72	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	66	200	–40	–40	–40	–	–
		T2 [1]	–40	76	76	76	250	62	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

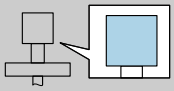
FMR51



= D2

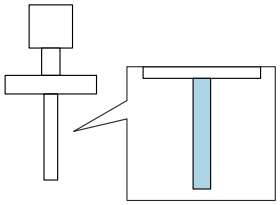
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T4	−196	80	80	80	135	72	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T3	−196	80	80	80	200	64	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T2	−196	80	80	80	300	50	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
	K, L	T6	−196	60	60	60	85	56	85	−40	−40	−40	−196	−15
		T5	−196	75	75	75	100	71	100	−40	−40	−40	−196	−15
		T4	−196	76	76	76	135	68	135	−40	−40	−40	−196	−15
		T3	−196	76	76	76	200	60	200	−40	−40	−40	−196	−15
		T2	−196	76	76	76	300	46	300	−40	−40	−40	−196	−15

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

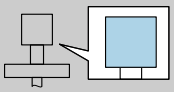
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–196	60	60	60	85	57	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T5	–196	75	75	75	100	72	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T4	–196	80	80	80	135	74	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T3	–196	80	80	80	200	67	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T2	–196	80	80	80	300	56	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T1	–196	80	80	80	450	39	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
	K, L	T6	–196	60	60	60	85	57	85	–40	–40	–40	–196	–20
		T5	–196	75	75	75	100	72	100	–40	–40	–40	–196	–20
		T4	–196	76	76	76	135	70	135	–40	–40	–40	–196	–20
		T3	–196	76	76	76	200	63	200	–40	–40	–40	–196	–20
		T2	–196	76	76	76	300	52	300	–40	–40	–40	–196	–20
		T1	–196	76	76	76	450	36	450	–40	–40	–40	–196	–20

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

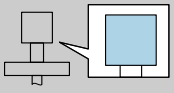
FMR52



= BO

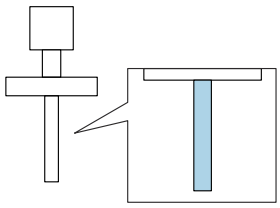
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–196	60	60	60	85	55	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T5	–196	75	75	75	100	70	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T4	–196	80	80	80	135	71	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
		T3	–196	80	80	80	200	59	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–3
	K, L	T6	–196	60	60	60	85	55	85	–40	–40	–40	–196	–3
		T5	–196	75	75	75	100	70	100	–40	–40	–40	–196	–3
		T4	–196	76	76	76	135	66	135	–40	–40	–40	–196	–3
		T3	–196	76	76	76	200	55	200	–40	–40	–40	–196	–3

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

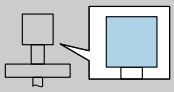
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–196	60	60	60	85	56	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T5	–196	75	75	75	100	71	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T4	–196	80	80	80	135	72	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
		T3	–196	80	80	80	200	63	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–14
	K, L	T6	–196	60	60	60	85	56	85	–40	–40	–40	–196	–14
		T5	–196	75	75	75	100	71	100	–40	–40	–40	–196	–14
		T4	–196	76	76	76	135	68	135	–40	–40	–40	–196	–14
		T3	–196	76	76	76	200	59	200	–40	–40	–40	–196	–14

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

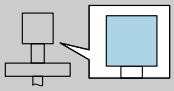
FMR52



= BP

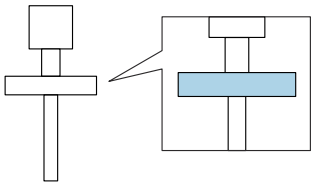
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–196	60	60	60	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T5	–196	75	75	75	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T4	–196	80	80	80	135	69	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T3	–196	80	80	80	200	55	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
	K, L	T6	–196	60	60	60	85	54	85	–40	–40	–40	–196	10
		T5	–196	75	75	75	100	69	100	–40	–40	–40	–196	10
		T4	–196	76	76	76	135	64	135	–40	–40	–40	–196	10
		T3	–196	76	76	76	200	51	200	–40	–40	–40	–196	10

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

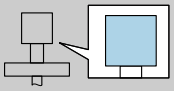
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–196	60	60	60	85	55	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T5	–196	75	75	75	100	70	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T4	–196	80	80	80	135	71	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T3	–196	80	80	80	200	60	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
	K, L	T6	–196	60	60	60	85	55	85	–40	–40	–40	–196	–8
		T5	–196	75	75	75	100	70	100	–40	–40	–40	–196	–8
		T4	–196	76	76	76	135	67	135	–40	–40	–40	–196	–8
		T3	–196	76	76	76	200	56	200	–40	–40	–40	–196	–8

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

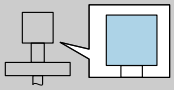
FMR53



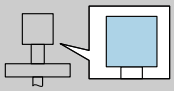
= RxF

 = *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**
	A, B, C	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

FMR53

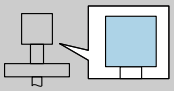
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	67	135	–40	–40	–40	–	–
		T3 [1]	–40	80	80	80	150	64	150	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	63	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	59	150	–40	–40	–40	–	–

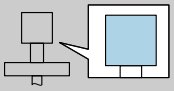
1) Functional: Maximum permissible process temperature

 = *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
	A, B, C	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	80	80	135	70	135	–40	–40	–40	–	–
		T3 [1]	–40	80	80	80	150	67	150	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	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	–	–

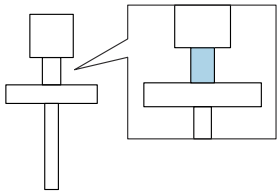
1) Functional: Maximum permissible process temperature

FMR54

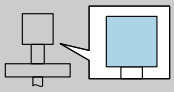
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	67	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	51	200	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	62	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	46	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
	A, B, C	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	80	80	135	69	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	56	200	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	65	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	52	200	–40	–40	–40	–	–

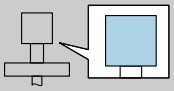
FMR54



= D1

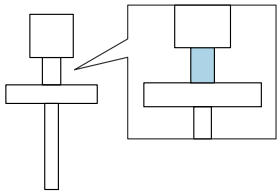
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−196	60	60	60	85	55	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T5	−196	75	75	75	100	70	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T4	−196	80	80	80	135	71	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T3	−196	80	80	80	200	60	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T2 [2]	−196	80	80	80	280	46	280	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
	K, L	T6	−196	60	60	60	85	55	85	−40	−40	−40	−196	−4
		T5	−196	75	75	75	100	70	100	−40	−40	−40	−196	−4
		T4	−196	76	76	76	135	67	135	−40	−40	−40	−196	−4
		T3	−196	76	76	76	200	55	200	−40	−40	−40	−196	−4
		T2 [2]	−196	76	76	76	280	42	280	−40	−40	−40	−196	−4

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

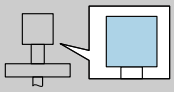
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T4	−196	80	80	80	135	72	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T3	−196	80	80	80	200	64	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T2 [2]	−196	80	80	80	280	53	280	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
	K, L	T6	−196	60	60	60	85	56	85	−40	−40	−40	−196	−15
		T5	−196	75	75	75	100	71	100	−40	−40	−40	−196	−15
		T4	−196	76	76	76	135	69	135	−40	−40	−40	−196	−15
		T3	−196	76	76	76	200	60	200	−40	−40	−40	−196	−15
		T2 [2]	−196	76	76	76	280	49	280	−40	−40	−40	−196	−15

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

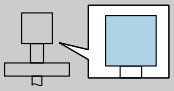
FMR54



= D2

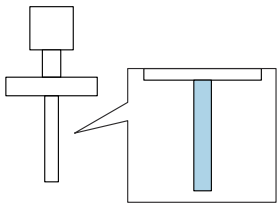
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−13
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−13
		T4	−196	80	80	80	135	72	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−13
		T3	−196	80	80	80	200	62	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−13
		T2	−196	80	80	80	300	48	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−13
		T1 [2]	−196	80	80	80	400	31	400	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−13
	K, L	T6	−196	60	60	60	85	56	85	−40	−40	−40	−196	−13
		T5	−196	75	75	75	100	71	100	−40	−40	−40	−196	−13
		T4	−196	76	76	76	135	68	135	−40	−40	−40	−196	−13
		T3	−196	76	76	76	200	58	200	−40	−40	−40	−196	−13
		T2	−196	76	76	76	300	44	300	−40	−40	−40	−196	−13

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

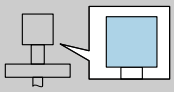
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−196	60	60	60	85	57	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T5	−196	75	75	75	100	72	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T4	−196	80	80	80	135	74	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T3	−196	80	80	80	200	66	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T2	−196	80	80	80	300	54	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
		T1 [2]	−196	80	80	80	400	42	400	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−19 −26 [1]
	K, L	T6	−196	60	60	60	85	57	85	−40	−40	−40	−196	−19
		T5	−196	75	75	75	100	72	100	−40	−40	−40	−196	−19
		T4	−196	76	76	76	135	70	135	−40	−40	−40	−196	−19
		T3	−196	76	76	76	200	62	200	−40	−40	−40	−196	−19
		T2	−196	76	76	76	300	50	300	−40	−40	−40	−196	−19
		T1 [2]	−196	76	76	76	400	39	400	−40	−40	−40	−196	−19

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

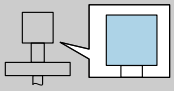
FMR54



= Dx

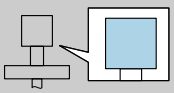
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	70	135	–40	–40	–40	–	–
		T3 [1]	–40	80	80	80	150	68	150	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	66	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	63	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

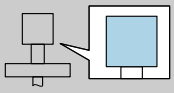
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	72	135	–40	–40	–40	–	–
		T3 [1]	–40	80	80	80	150	70	150	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	68	135	–40	–40	–40	–	–
		T3 [1]	–40	76	76	76	150	66	150	–40	–40	–40	–	–

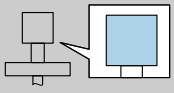
1) Functional: Maximum permissible process temperature

FMR56

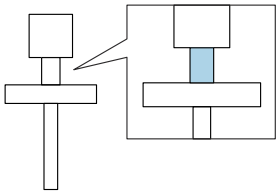
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

FMR57

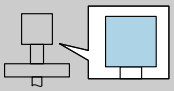
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	80	80	80	135	73	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	65	200	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	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	–	–

 = *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
	A, B, C	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	80	80	135	75	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	69	200	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	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	–	–

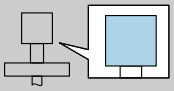
FMR57



= D4

 = *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
	A, B, C	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	80	80	135	75	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	69	200	–40	–40	–40	–	–
		T2	–40	80	80	80	300	60	300	–40	–40	–40	–	–
		T1 [1]	–40	80	80	80	400	51	400	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	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	–40	76	76	76	300	56	300	–40	–40	–40	–	–
		T1 [1]	–40	76	76	76	400	47	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
	A, B, C	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	80	80	135	76	135	–40	–40	–40	–	–
		T3	–40	80	80	80	200	71	200	–40	–40	–40	–	–
		T2	–40	80	80	80	300	64	300	–40	–40	–40	–	–
		T1 [1]	–40	80	80	80	400	57	400	–40	–40	–40	–	–
	K, L	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	76	76	76	135	72	135	–40	–40	–40	–	–
		T3	–40	76	76	76	200	68	200	–40	–40	–40	–	–
		T2	–40	76	76	76	300	61	300	–40	–40	–40	–	–
		T1 [1]	–40	76	76	76	400	53	400	–40	–40	–40	–	–

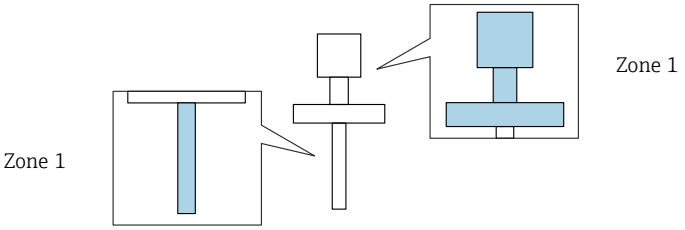
1) Functional: Maximum permissible process temperature

Zone 1: 2 channels

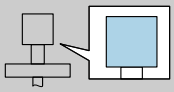
Position 3 = B, C: 2 channels used

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

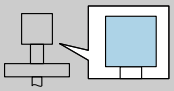
- FMR50 → 📄 25
- FMR51 → 📄 26
- FMR52 → 📄 30
- FMR53 → 📄 32
- FMR54 → 📄 34
- FMR56 → 📄 40
- FMR57 → 📄 41



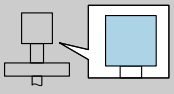
FMR50

 = *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
	B, C	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

FMR51

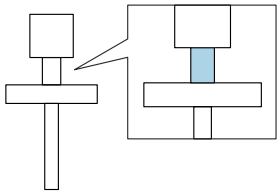
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	62	135	–40	–40	–40	–	–
		T3 [1]	–40	75	75	75	150	59	150	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	66	135	–40	–40	–40	–	–
		T3 [1]	–40	78	78	78	150	63	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

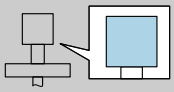
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	65	135	–40	–40	–40	–	–
		T3 [1]	–40	75	75	75	150	62	150	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	68	135	–40	–40	–40	–	–
		T3 [1]	–40	78	78	78	150	66	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

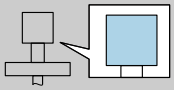
FMR51



= D3

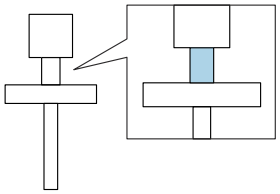
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	69	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	62	200	–40	–40	–40	–	–
		T2 [1]	–40	75	75	75	250	57	250	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	72	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	65	200	–40	–40	–40	–	–
		T2 [1]	–40	78	78	78	250	60	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

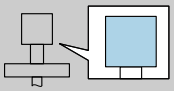
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	70	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	65	200	–40	–40	–40	–	–
		T2 [1]	–40	75	75	75	250	60	250	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	73	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	68	200	–40	–40	–40	–	–
		T2 [1]	–40	78	78	78	250	64	250	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

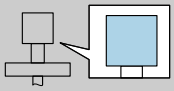
FMR51



= D2

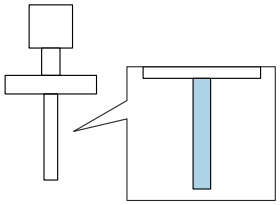
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T4	−196	75	75	75	135	67	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T3	−196	75	75	75	200	58	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T2	−196	75	75	75	300	44	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
	C	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	78	78	78	135	70	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T3	−196	78	78	78	200	61	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15
		T2	−196	78	78	78	300	48	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−15

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

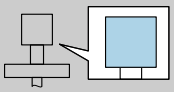
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–196	60	60	60	85	57	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T5	–196	75	75	75	100	72	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T4	–196	75	75	75	135	68	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T3	–196	75	75	75	200	61	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T2	–196	75	75	75	300	51	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T1	–196	75	75	75	450	34	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
	C	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	78	78	78	135	72	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T3	–196	78	78	78	200	65	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T2	–196	78	78	78	300	54	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]
		T1	–196	78	78	78	450	38	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–20 –28 [1]

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

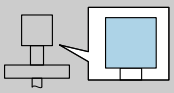
FMR52



= BO

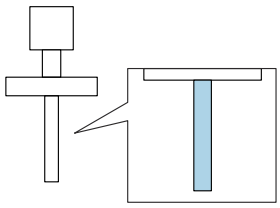
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	−196	60	60	60	85	55	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−3
		T5	−196	75	75	75	100	70	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−3
		T4	−196	75	75	75	135	65	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−3
		T3	−196	75	75	75	200	53	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−3
	C	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	78	78	78	135	68	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−3
		T3	−196	78	78	78	200	57	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−3

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

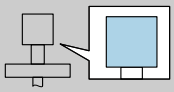
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−14
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−14
		T4	−196	75	75	75	135	67	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−14
		T3	−196	75	75	75	200	58	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−14
	C	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	78	78	78	135	70	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−14
		T3	−196	78	78	78	200	61	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−14

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

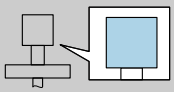
FMR52



= BP

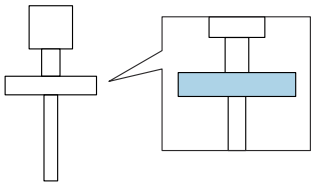
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–196	60	60	60	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T5	–196	75	75	75	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T4	–196	75	75	75	135	63	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T3	–196	75	75	75	200	49	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
	C	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	78	78	78	135	66	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10
		T3	–196	78	78	78	200	53	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	10

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

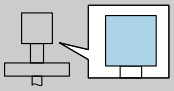
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–196	60	60	60	85	55	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T5	–196	75	75	75	100	70	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T4	–196	75	75	75	135	65	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T3	–196	75	75	75	200	54	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
	C	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	78	78	78	135	69	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8
		T3	–196	78	78	78	200	58	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–8

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

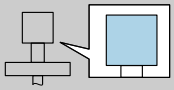
FMR53



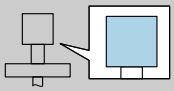
= RxF

 = *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**
	B, C	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

FMR53

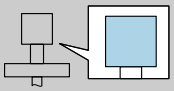
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	61	135	–40	–40	–40	–	–
		T3 [1]	–40	75	75	75	150	58	150	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	65	135	–40	–40	–40	–	–
		T3 [1]	–40	78	78	78	150	61	150	–40	–40	–40	–	–

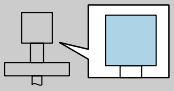
1) Functional: Maximum permissible process temperature

 = *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
	B	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	64	135	–40	–40	–40	–	–
		T3 [1]	–40	75	75	75	150	61	150	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	67	135	–40	–40	–40	–	–
		T3 [1]	–40	78	78	78	150	64	150	–40	–40	–40	–	–

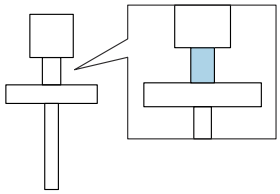
1) Functional: Maximum permissible process temperature

FMR54

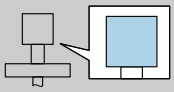
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	60	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	45	200	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	53	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	68	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	64	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	48	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
	B	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	63	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	50	200	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	54	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	69	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	67	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	54	200	–40	–40	–40	–	–

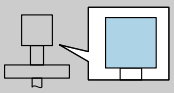
FMR54



= D1

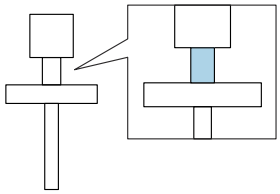
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	−196	60	60	60	85	55	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T5	−196	75	75	75	100	70	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T4	−196	75	75	75	135	65	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T3	−196	75	75	75	200	54	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T2 [2]	−196	75	75	75	280	40	280	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
	C	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	78	78	78	135	68	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T3	−196	78	78	78	200	57	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−4
		T2 [2]	−196	78	78	78	280	44	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

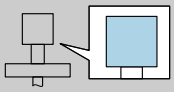
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–196	60	60	60	85	56	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T5	–196	75	75	75	100	71	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T4	–196	75	75	75	135	67	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T3	–196	75	75	75	200	58	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T2 [2]	–196	75	75	75	280	47	280	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
	C	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	78	78	78	135	70	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T3	–196	78	78	78	200	61	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–15
		T2 [2]	–196	78	78	78	280	51	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

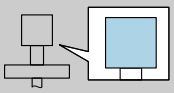
FMR54



= D2

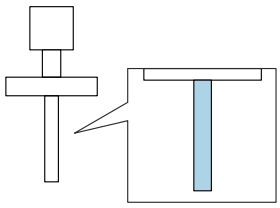
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–196	60	60	60	85	56	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T5	–196	75	75	75	100	71	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T4	–196	75	75	75	135	66	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T3	–196	75	75	75	200	57	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T2	–196	75	75	75	300	42	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
	C	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	78	78	78	135	70	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T3	–196	78	78	78	200	60	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T2	–196	78	78	78	300	46	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–13
		T1 [2]	–196	78	78	78	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

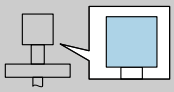
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–196	60	60	60	85	57	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T5	–196	75	75	75	100	72	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T4	–196	75	75	75	135	68	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T3	–196	75	75	75	200	60	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T2	–196	75	75	75	300	49	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T1 [2]	–196	75	75	75	400	37	400	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
	C	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	78	78	78	135	71	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T3	–196	78	78	78	200	64	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T2	–196	78	78	78	300	52	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–19 –26 [1]
		T1 [2]	–196	78	78	78	400	41	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

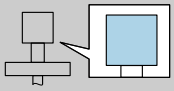
FMR54



= Dx

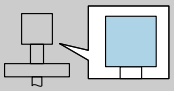
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	64	135	–40	–40	–40	–	–
		T3 [1]	–40	75	75	75	150	62	150	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	55	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	70	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	68	135	–40	–40	–40	–	–
		T3 [1]	–40	78	78	78	150	65	150	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

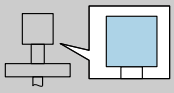
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	66	135	–40	–40	–40	–	–
		T3 [1]	–40	75	75	75	150	64	150	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	70	135	–40	–40	–40	–	–
		T3 [1]	–40	78	78	78	150	68	150	–40	–40	–40	–	–

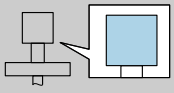
1) Functional: Maximum permissible process temperature

FMR56

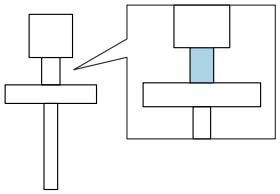
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B, C	T6	–40	60	60	60	80	58	80	–40	–40	–40	–	–

FMR57

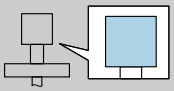
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	68	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	60	200	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	56	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	71	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	71	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	63	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
	B	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	69	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	63	200	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	73	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	66	200	–40	–40	–40	–	–

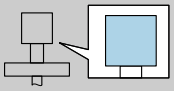
FMR57



= D4

 = *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
	B	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	70	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	64	200	–40	–40	–40	–	–
		T2	–40	75	75	75	300	54	300	–40	–40	–40	–	–
		T1 [1]	–40	75	75	75	400	45	400	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	57	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	72	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	73	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	67	200	–40	–40	–40	–	–
		T2	–40	78	78	78	300	58	300	–40	–40	–40	–	–
		T1 [1]	–40	78	78	78	400	49	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
	B	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	75	75	75	135	71	135	–40	–40	–40	–	–
		T3	–40	75	75	75	200	66	200	–40	–40	–40	–	–
		T2	–40	75	75	75	300	59	300	–40	–40	–40	–	–
		T1 [1]	–40	75	75	75	400	52	400	–40	–40	–40	–	–
	C	T6	–40	60	60	60	85	58	85	–40	–40	–40	–	–
		T5	–40	75	75	75	100	73	100	–40	–40	–40	–	–
		T4	–40	78	78	78	135	74	135	–40	–40	–40	–	–
		T3	–40	78	78	78	200	69	200	–40	–40	–40	–	–
		T2	–40	78	78	78	300	62	300	–40	–40	–40	–	–
		T1 [1]	–40	78	78	78	400	55	400	–40	–40	–40	–	–

1) Functional: Maximum permissible process temperature

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