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Safety Instructions
Levelflex FMP51-FMP55

4-20 mA HART

Associated Safety Instructions (XA) on page 4

Endress+Hauser
People for Process Automation

Levelflex FMP51-FMP55

4-20 mA HART

Table of contents

Associated documentation

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

ATEX, IECEx:
XA00499F

NEPSI:
XA00636F

KC:
XA01170F

INMETRO:
XA01189F

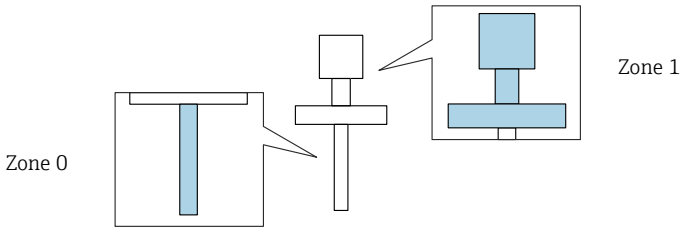
EAC:
XA01382F

UK:
XA02524F

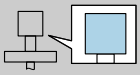
JPN:
XA03314F

Zone 0, Zone 1: Compact; 1 channel

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



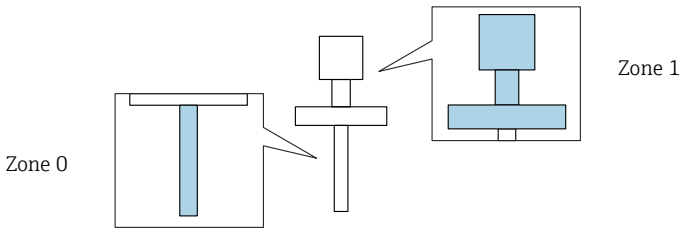
FMP5x

 = *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 [1]	T_p	T_a [1]	T_p	T_a
	A, B, C	T6	−20	60	60	60	60	60	60	−40 −50 [2]	−20	−40 −50 [2]	–	–
	K, L	T6	−20	60	60	60	60	60	60	−40	−20	−40	–	–

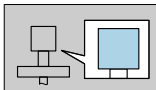
1) FMP53: without remote sensor = −20 °C
2) Only in connection with Optional specification, ID Jx = JN

Zone 0, Zone 1: Compact; 2 channels

Probe design: compact
Position 3 = B, C: 2 channels used



FMP5x

 = *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 [1]	T_p	T_a [1]	T_p	T_a
	B, C	T6	−20	60	60	60	60	60	60	−40 −50 [2]	−20	−40 −50 [2]	–	–

1) FMP53: without remote sensor = −20 °C
2) Only in connection with Optional specification, ID Jx = JN

Zone 1: Compact; 1 channel

Probe design: compact
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.

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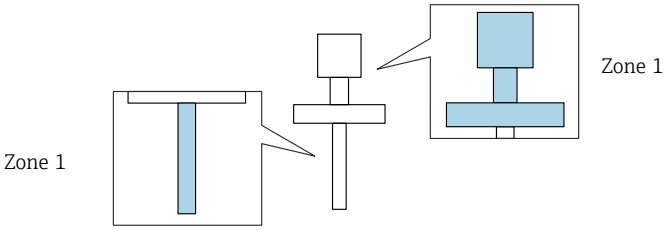
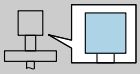
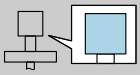


FMP51

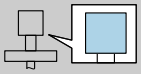
 = *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−40 −50 [1]	60	60	60	85	51	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
		T5	−40 −50 [1]	75	75	75	100	66	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
		T4	−40 −50 [1]	80	80	80	135	67	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
		T3	−40 −50 [1]	80	80	80	200	48	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
	K, L	T6	−40	60	60	60	85	51	85	−40	−40	−40	–	–
		T5	−40	75	75	75	100	66	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	–	–

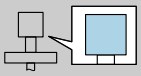
1) Only in connection with Optional specification, ID Jx = JN

 = *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	−40 −50 [1]	60	60	60	85	53	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
		T5	−40 −50 [1]	75	75	75	100	68	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
		T4	−40 −50 [1]	80	80	80	135	69	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
		T3	−40 −50 [1]	80	80	80	200	56	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	–	–
	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	64	135	−40	−40	−40	–	–
		T3	−40	76	76	76	200	51	200	−40	−40	−40	–	–

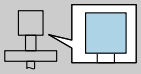
1) Only in connection with Optional specification, ID Jx = JN

FMP52

 = *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	–50	60	60	60	85	52	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	67	100	–40	–40	–40	–50	–37
		T4	–50	80	80	80	135	68	135	–40	–40	–40	–50	–37
		T3	–50	80	80	80	200	52	200	–40	–40	–40	–50	–37
	K, L	T6	–50	60	60	60	85	52	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	67	100	–40	–40	–40	–50	–37
		T4	–50	76	76	76	135	63	135	–40	–40	–40	–50	–37
		T3	–50	76	76	76	200	48	200	–40	–40	–40	–50	–37

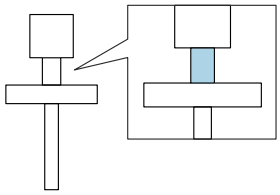
 = *C*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	–50	60	60	60	85	54	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	69	100	–40	–40	–40	–50	–37
		T4	–50	80	80	80	135	70	135	–40	–40	–40	–50	–37
		T3	–50	80	80	80	200	58	200	–40	–40	–40	–50	–37
	K, L	T6	–50	60	60	60	85	54	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	69	100	–40	–40	–40	–50	–37
		T4	–50	76	76	76	135	65	135	–40	–40	–40	–50	–37
		T3	–50	76	76	76	200	53	200	–40	–40	–40	–50	–37

FMP53

 = *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	85	54	85	–20	–20	–20	–	–
		T5	–20	75	75	75	100	69	100	–20	–20	–20	–	–
		T4	–20	80	80	80	135	69	135	–20	–20	–20	–	–
		T3 [1]	–20	80	80	80	150	66	150	–20	–20	–20	–	–
	K, L	T6	–20	60	60	60	85	54	85	–20	–20	–20	–	–
		T5	–20	75	75	75	100	69	100	–20	–20	–20	–	–
		T4	–20	76	76	76	135	64	135	–20	–20	–20	–	–
		T3 [1]	–20	76	76	76	150	61	150	–20	–20	–20	–	–

1) Functional: Maximum permissible process temperature

FMP54



= D1

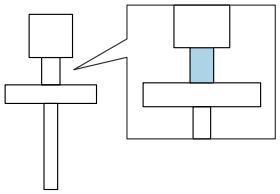
= *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T4	−196	80	80	80	135	73	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T3	−196	80	80	80	200	64	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T2 [2]	−196	80	80	80	280	53	280	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
	K, L	T6	−196	60	60	60	85	56	85	−40	−40	−40	−196	−16
		T5	−196	75	75	75	100	71	100	−40	−40	−40	−196	−16
		T4	−196	76	76	76	135	68	135	−40	−40	−40	−196	−16
		T3	−196	76	76	76	200	60	200	−40	−40	−40	−196	−16
		T2 [2]	−196	76	76	76	280	49	280	−40	−40	−40	−196	−16

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	−23 −34 [1]
		T5	−196	75	75	75	100	72	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−23 −34 [1]
		T4	−196	80	80	80	135	75	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−23 −34 [1]
		T3	−196	80	80	80	200	68	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−23 −34 [1]
		T2 [2]	−196	80	80	80	280	60	280	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−23 −34 [1]
	K, L	T6	−196	60	60	60	85	57	85	−40	−40	−40	−196	−23
		T5	−196	75	75	75	100	72	100	−40	−40	−40	−196	−23
		T4	−196	76	76	76	135	70	135	−40	−40	−40	−196	−23
		T3	−196	76	76	76	200	64	200	−40	−40	−40	−196	−23
		T2 [2]	−196	76	76	76	280	56	280	−40	−40	−40	−196	−23

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

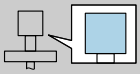
FMP54



= D2

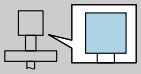
= *B*	(1)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	A, B, C	T6	−196	60	60	60	85	57	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T5	−196	75	75	75	100	72	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T4	−196	80	80	80	135	76	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T3	−196	80	80	80	200	71	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T2	−196	80	80	80	300	63	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T1	−196	80	80	80	450	52	450	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
	K, L	T6	−196	60	60	60	85	57	85	−40	−40	−40	−196	−26
		T5	−196	75	75	75	100	72	100	−40	−40	−40	−196	−26
		T4	−196	76	76	76	135	72	135	−40	−40	−40	−196	−26
		T3	−196	76	76	76	200	67	200	−40	−40	−40	−196	−26
		T2	−196	76	76	76	300	59	300	−40	−40	−40	−196	−26
		T1	−196	76	76	76	450	48	450	−40	−40	−40	−196	−26

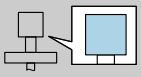
1) Only in connection with Optional specification, ID Jx = JN

 = *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	58	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T5	–196	75	75	75	100	73	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T4	–196	80	80	80	135	76	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T3	–196	80	80	80	200	72	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T2	–196	80	80	80	300	65	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T1	–196	80	80	80	450	54	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
	K, L	T6	–196	60	60	60	85	58	85	–40	–40	–40	–196	–27
		T5	–196	75	75	75	100	73	100	–40	–40	–40	–196	–27
		T4	–196	76	76	76	135	72	135	–40	–40	–40	–196	–27
		T3	–196	76	76	76	200	67	200	–40	–40	–40	–196	–27
		T2	–196	76	76	76	300	60	300	–40	–40	–40	–196	–27
		T1	–196	76	76	76	450	50	450	–40	–40	–40	–196	–27

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

FMP55

 = *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	–50	60	60	60	85	52	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	67	100	–40	–40	–40	–50	–37
		T4	–50	80	80	80	135	68	135	–40	–40	–40	–50	–37
		T3	–50	80	80	80	200	52	200	–40	–40	–40	–50	–37
	K, L	T6	–50	60	60	60	85	52	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	67	100	–40	–40	–40	–50	–37
		T4	–50	76	76	76	135	63	135	–40	–40	–40	–50	–37
		T3	–50	76	76	76	200	48	200	–40	–40	–40	–50	–37

 = *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	–50	60	60	60	85	54	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	69	100	–40	–40	–40	–50	–37
		T4	–50	80	80	80	135	69	135	–40	–40	–40	–50	–37
		T3	–50	80	80	80	200	56	200	–40	–40	–40	–50	–37
	K, L	T6	–50	60	60	60	85	54	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	69	100	–40	–40	–40	–50	–37
		T4	–50	76	76	76	135	64	135	–40	–40	–40	–50	–37
		T3	–50	76	76	76	200	52	200	–40	–40	–40	–50	–37

Zone 1: Compact; 2 channels

Probe design: compact
Position 3 = B, C: 2 channels used

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

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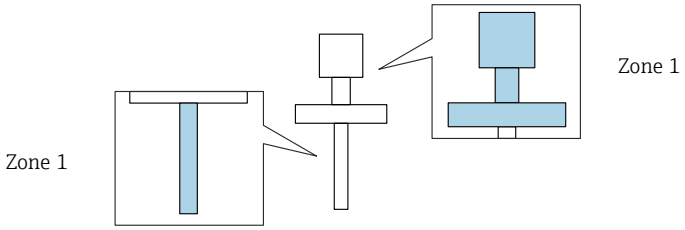
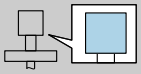
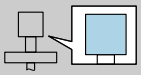
- FMP54 → 16
- FMP55 → 20



FMP51

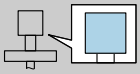
 = *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	–40 –50 [1]	60	60	60	85	52	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T5	–40 –50 [1]	75	75	75	100	67	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T4	–40 –50 [1]	75	75	75	135	60	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T3	–40 –50 [1]	75	75	75	200	45	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
	C	T6	–40 –50 [1]	60	60	60	85	51	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T5	–40 –50 [1]	75	75	75	100	66	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T4	–40 –50 [1]	78	78	78	135	64	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T3	–40 –50 [1]	78	78	78	200	48	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–

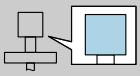
1) Only in connection with Optional specification, ID Jx = JN

 = *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	–40 –50 [1]	60	60	60	85	54	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T5	–40 –50 [1]	75	75	75	100	69	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T4	–40 –50 [1]	75	75	75	135	63	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T3	–40 –50 [1]	75	75	75	200	50	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
	C	T6	–40 –50 [1]	60	60	60	85	53	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T5	–40 –50 [1]	75	75	75	100	68	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T4	–40 –50 [1]	78	78	78	135	66	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–
		T3	–40 –50 [1]	78	78	78	200	53	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–	–

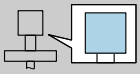
1) Only in connection with Optional specification, ID Jx = JN

FMP52

 = *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	−50	60	60	60	85	53	85	−40	−40	−40	−50	−37
		T5	−50	75	75	75	100	68	100	−40	−40	−40	−50	−37
		T4	−50	75	75	75	135	61	135	−40	−40	−40	−50	−37
		T3	−50	75	75	75	200	47	200	−40	−40	−40	−50	−37
	C	T6	−50	60	60	60	85	52	85	−40	−40	−40	−50	−37
		T5	−50	75	75	75	100	67	100	−40	−40	−40	−50	−37
		T4	−50	78	78	78	135	65	135	−40	−40	−40	−50	−37
		T3	−50	78	78	78	200	50	200	−40	−40	−40	−50	−37

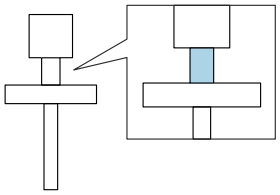
 = *C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	−50	60	60	60	85	55	85	−40	−40	−40	−50	−38
		T5	−50	75	75	75	100	70	100	−40	−40	−40	−50	−38
		T4	−50	75	75	75	135	64	135	−40	−40	−40	−50	−38
		T3	−50	75	75	75	200	52	200	−40	−40	−40	−50	−38
	C	T6	−50	60	60	60	85	54	85	−40	−40	−40	−50	−37
		T5	−50	75	75	75	100	69	100	−40	−40	−40	−50	−37
		T4	−50	78	78	78	135	67	135	−40	−40	−40	−50	−37
		T3	−50	78	78	78	200	55	200	−40	−40	−40	−50	−37

FMP53

 = *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	85	54	85	−20	−20	−20	–	–
		T5	−20	75	75	75	100	69	100	−20	−20	−20	–	–
		T4	−20	75	75	75	135	63	135	−20	−20	−20	–	–
		T3 [1)]	−20	75	75	75	150	59	150	−20	−20	−20	–	–
	C	T6	−20	60	60	60	85	54	85	−20	−20	−20	–	–
		T5	−20	75	75	75	100	69	100	−20	−20	−20	–	–
		T4	−20	78	78	78	135	66	135	−20	−20	−20	–	–
		T3 [1)]	−20	78	78	78	150	63	150	−20	−20	−20	–	–

1) Functional: Maximum permissible process temperature

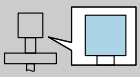
FMP54



= D1

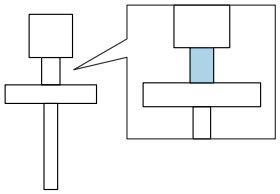
= *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T4	−196	75	75	75	135	67	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T3	−196	75	75	75	200	58	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T2 [2]	−196	75	75	75	280	48	280	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
	C	T6	−196	60	60	60	85	56	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T5	−196	75	75	75	100	71	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T4	−196	78	78	78	135	70	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T3	−196	78	78	78	200	61	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]
		T2 [2]	−196	78	78	78	280	51	280	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−16 −27 [1]

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	–23 –34 [1]
		T5	–196	75	75	75	100	72	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
		T4	–196	75	75	75	135	69	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
		T3	–196	75	75	75	200	63	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
		T2 [2]	–196	75	75	75	280	55	280	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
	C	T6	–196	60	60	60	85	57	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
		T5	–196	75	75	75	100	72	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
		T4	–196	78	78	78	135	72	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
		T3	–196	78	78	78	200	65	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]
		T2 [2]	–196	78	78	78	280	57	280	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–23 –34 [1]

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

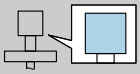
FMP54



= D2

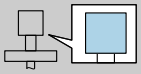
= *B*	(2)		P1		P2		P3		P4		P5		P6	
			T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a
	B	T6	−196	60	60	60	85	58	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−27 −37 [1]
		T5	−196	75	75	75	100	73	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−27 −37 [1]
		T4	−196	75	75	75	135	70	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−27 −37 [1]
		T3	−196	75	75	75	200	66	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−27 −37 [1]
		T2	−196	75	75	75	300	58	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−27 −37 [1]
		T1	−196	75	75	75	450	47	450	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−27 −37 [1]
	C	T6	−196	60	60	60	85	57	85	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T5	−196	75	75	75	100	72	100	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T4	−196	78	78	78	135	73	135	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T3	−196	78	78	78	200	68	200	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T2	−196	78	78	78	300	61	300	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]
		T1	−196	78	78	78	450	49	450	−40 −50 [1]	−40 −50 [1]	−40 −50 [1]	−196	−26 −37 [1]

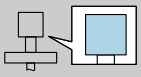
1) Only in connection with Optional specification, ID Jx = JN

 = *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	58	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–28 –37 [1]
		T5	–196	75	75	75	100	73	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–28 –37 [1]
		T4	–196	75	75	75	135	71	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–28 –37 [1]
		T3	–196	75	75	75	200	66	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–28 –37 [1]
		T2	–196	75	75	75	300	59	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–28 –37 [1]
		T1	–196	75	75	75	450	49	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–28 –37 [1]
	C	T6	–196	60	60	60	85	58	85	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T5	–196	75	75	75	100	73	100	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T4	–196	78	78	78	135	74	135	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T3	–196	78	78	78	200	69	200	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T2	–196	78	78	78	300	62	300	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]
		T1	–196	78	78	78	450	51	450	–40 –50 [1]	–40 –50 [1]	–40 –50 [1]	–196	–27 –37 [1]

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

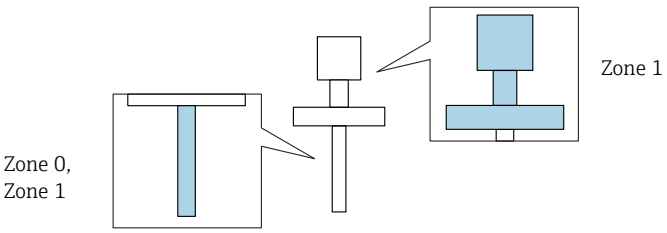
FMP55

 = *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	–50	60	60	60	85	54	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	69	100	–40	–40	–40	–50	–37
		T4	–50	75	75	75	135	62	135	–40	–40	–40	–50	–37
		T3	–50	75	75	75	200	48	200	–40	–40	–40	–50	–37
	C	T6	–50	60	60	60	85	52	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	67	100	–40	–40	–40	–50	–37
		T4	–50	78	78	78	135	65	135	–40	–40	–40	–50	–37
		T3	–50	78	78	78	200	50	200	–40	–40	–40	–50	–37

 = *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	–50	60	60	60	85	55	85	–40	–40	–40	–50	–38
		T5	–50	75	75	75	100	70	100	–40	–40	–40	–50	–38
		T4	–50	75	75	75	135	63	135	–40	–40	–40	–50	–38
		T3	–50	75	75	75	200	50	200	–40	–40	–40	–50	–38
	C	T6	–50	60	60	60	85	54	85	–40	–40	–40	–50	–37
		T5	–50	75	75	75	100	69	100	–40	–40	–40	–50	–37
		T4	–50	78	78	78	135	66	135	–40	–40	–40	–50	–37
		T3	–50	78	78	78	200	54	200	–40	–40	–40	–50	–37

Zone 0/1, Zone 1: Remote; 1 channel

Probe design: remote
Position 3 = A, B, C, K, L: 1 channel used
Optional specification, ID Mx = MB, MC, MD



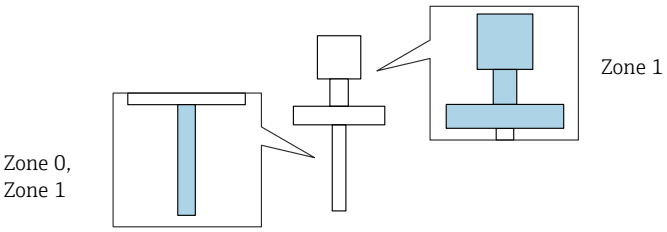
FMP5x

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

1) T_p = dependent on the sensor

Zone 0/1, Zone 1: Remote; 2 channels

Probe design: remote
Position 3 = B, C: 2 channels used
Optional specification, ID Mx = MB, MC, MD



FMP5x

= *B, C*	(2)		P1		P2		P3		P4		P5		P6	
			T_p [1]	T_a	T_p [1]	T_a	T_p [1]	T_a	T_p [1]	T_a	T_p [1]	T_a	T_p [1]	T_a
	B, C	T6	–	60	–	60	–	60	–	–40	–	–40	–	–

1) T_p = dependent on the sensor

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