

Safety Instructions

Levelflex FMP51-FMP55

PROFIBUS PA, FOUNDATION Fieldbus

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Levelflex FMP51-FMP55

PROFIBUS PA, FOUNDATION Fieldbus

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Associated documentation

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

ATEX, IECEX:
XA00520F/00

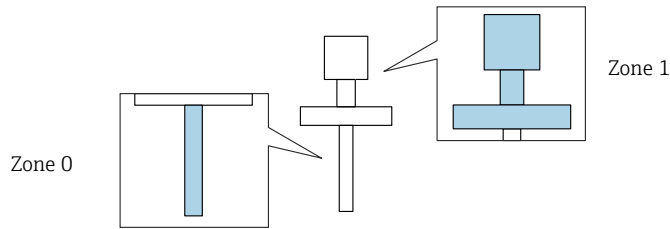
UK:
XA02533F/00

EAC:
XA01697F/00

KC:
XA02919F/00

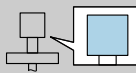
Zone 0, Zone 1: Compact;
1 channel

Probe design: compact
Position 3 = E, G: 1 channel used



 Explosion protection "Intrinsic safety Ex ia", "Flameproof enclosure Ex db"

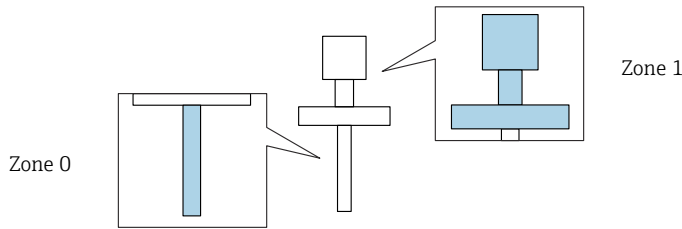
FMP5x

 = 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
	E, G	T6	-20	60	60	60	60	60	60	-40 -50 ²⁾	-20	-40 -50 ²⁾	-	-
		T5	-20	75	60	75	60	75	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

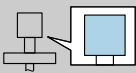
Zone 0, Zone 1: Compact;
2 channels

Probe design: compact
Position 3 = E, G: 2 channels used



 Explosion protection "Intrinsic safety Ex ia"

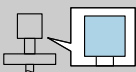
FMP5x

 = 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
	E, G	T6	-20	56	56	56	56	56	56	-40 -50 ²⁾	-20	-40 -50 ²⁾	-	-
		T5	-20	72	60	72	60	72	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

 Explosion protection "Flameproof enclosure Ex db"

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
	E, G	T6	-20	60	60	60	60	60	60	-40 -50 ²⁾	-20	-40 -50 ²⁾	-	-
		T6	-20	75	60	75	60	75	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

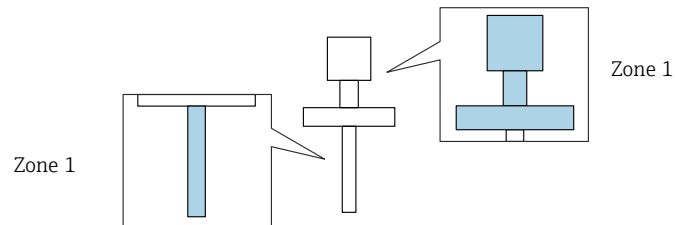
Zone 1: Compact; 1 channel

Probe design: compact

Position 3 = E, G: 1 channel used

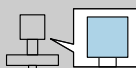
Page references to the temperature tables of the respective device types: See the following list.

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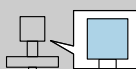


 Explosion protection "Intrinsic safety Ex ia", "Flameproof enclosure Ex db"

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
	E, G	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⁾	-	-

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

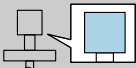
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-40 -50 ¹⁾	60	60	60	85	53	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T5	-40 -50 ¹⁾	75	75	75	100	68	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T4	-40 -50 ¹⁾	80	80	80	135	69	135	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T3	-40 -50 ¹⁾	80	80	80	200	56	200	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-

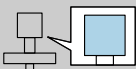
1) Only in connection with Optional specification, ID Jx = JN



Explosion protection "Intrinsic safety Ex ia", "Flameproof enclosure Ex db"

FMP52

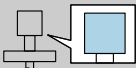
 = B	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	60	60	60	85	52	85	-40	-40	-40	-50	-37
		T5	-50	75	75	75	100	67	100	-40	-40	-40	-50	-37
		T4	-50	80	80	80	135	68	135	-40	-40	-40	-50	-37
		T3	-50	80	80	80	200	52	200	-40	-40	-40	-50	-37

 = 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	-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



Explosion protection "Intrinsic safety Ex ia", "Flameproof enclosure Ex db"

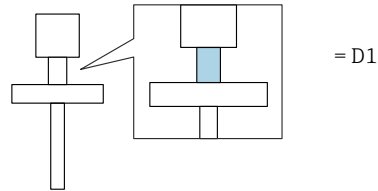
FMP53

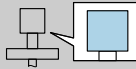
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-20	60	60	60	85	54	85	-20	-20	-20	-	-
		T5	-20	75	75	75	100	69	100	-20	-20	-20	-	-
		T4	-20	80	80	80	135	69	135	-20	-20	-20	-	-
		T3 ¹⁾	-20	80	80	80	150	66	150	-20	-20	-20	-	-

1) Functional: Maximum permissible process temperature

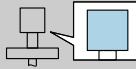


Explosion protection "Intrinsic safety Ex ia", "Flameproof enclosure Ex db"

FMP54


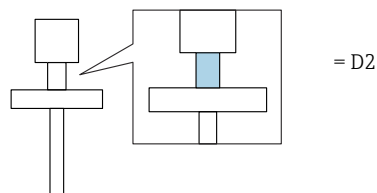
 = B	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	60	60	60	85	56	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-16 -27 ¹⁾
		T5	-196	75	75	75	100	71	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-16 -27 ¹⁾
		T4	-196	80	80	80	135	73	135	-40 -50 ¹⁾	-40 -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	54	280	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-16 -27 ¹⁾

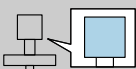
- 1) Only in connection with Optional specification, ID Jx = JN
- 2) Functional: Maximum permissible process temperature

 = C	(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	-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⁾

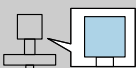
- 1) Only in connection with Optional specification, ID Jx = JN
- 2) Functional: Maximum permissible process temperature

FMP54



 = 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	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	64	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⁾

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

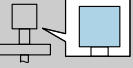
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	60	60	60	85	58	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T5	-196	75	75	75	100	73	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T4	-196	80	80	80	135	76	135	-40 -50 ¹⁾	-40 -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⁾

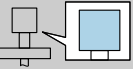
1) Only in connection with Optional specification, ID Jx = JN



Explosion protection "Intrinsic safety Ex ia", "Flameproof enclosure Ex db"

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
	E, G	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

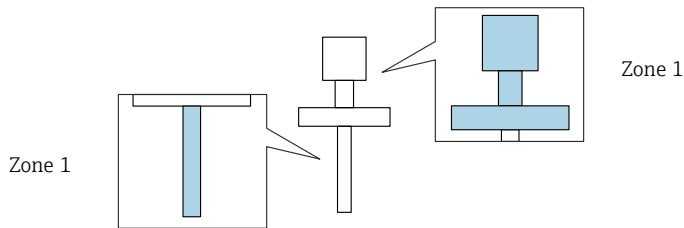
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	60	60	60	85	54	85	-40	-40	-40	-50	-37
		T5	-50	75	75	75	100	69	100	-40	-40	-40	-50	-37
		T4	-50	80	80	80	135	69	135	-40	-40	-40	-50	-37
		T3	-50	80	80	80	200	57	200	-40	-40	-40	-50	-37

Zone 1: Compact; 2 channels

Probe design: compact
Position 3 = E, G: 2 channels used

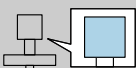
Page references to the temperature tables of the respective device types: See the following list.

- FMP51 → 12
- FMP52 → 14
- FMP53 → 15
- FMP54 → 16
- FMP55 → 20

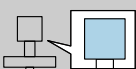


 Explosion protection "Intrinsic safety Ex ia"

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
	E, G	T6	-40 -50 ¹⁾	57	57	57	85	50	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T5	-40 -50 ¹⁾	72	72	72	100	65	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T4	-40 -50 ¹⁾	75	75	75	135	61	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⁾	-	-

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

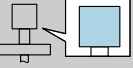
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-40 -50 ¹⁾	57	57	57	85	51	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T5	-40 -50 ¹⁾	72	72	72	100	66	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T4	-40 -50 ¹⁾	75	75	75	135	63	135	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T3	-40 -50 ¹⁾	75	75	75	200	50	200	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-

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

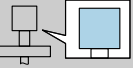


Explosion protection "Flameproof enclosure Ex db"

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
	E, G	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⁾	75	75	75	135	61	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⁾	-	-

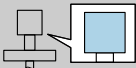
1) Only in connection with Optional specification, ID Jx = JN

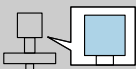
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-40 -50 ¹⁾	60	60	60	85	53	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T5	-40 -50 ¹⁾	75	75	75	100	68	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T4	-40 -50 ¹⁾	75	75	75	135	63	135	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-
		T3	-40 -50 ¹⁾	75	75	75	200	50	200	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-	-

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

 Explosion protection "Intrinsic safety Ex ia"

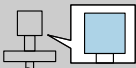
FMP52

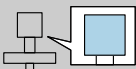
 = B	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	57	57	57	85	51	85	-40	-40	-40	-50	-37
		T5	-50	72	72	72	100	66	100	-40	-40	-40	-50	-37
		T4	-50	75	75	75	135	62	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	47	200	-40	-40	-40	-50	-37

 = 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
	E, G	T6	-50	57	57	57	85	52	85	-40	-40	-40	-50	-37
		T5	-50	72	72	72	100	67	100	-40	-40	-40	-50	-37
		T4	-50	75	75	75	135	64	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	52	200	-40	-40	-40	-50	-37

 Explosion protection "Flameproof enclosure Ex db"

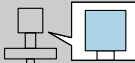
FMP52

 = 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
	E, G	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	75	75	75	135	62	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	47	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
	E, G	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	64	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	52	200	-40	-40	-40	-50	-37

 Explosion protection "Intrinsic safety Ex ia"

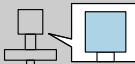
FMP53

 = 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
	E, G	T6	-20	57	57	57	85	51	85	-20	-20	-20	-	-
		T5	-20	72	72	72	100	66	100	-20	-20	-20	-	-
		T4	-20	75	75	75	135	63	135	-20	-20	-20	-	-
		T3 ¹⁾	-20	75	75	75	150	60	150	-20	-20	-20	-	-

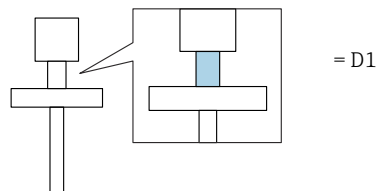
1) Functional: Maximum permissible process temperature

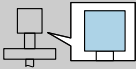
 Explosion protection "Flameproof enclosure Ex db"

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
	E, G	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	60	150	-20	-20	-20	-	-

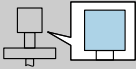
1) Functional: Maximum permissible process temperature

**FMP54**

 = 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	-16 -27 ¹⁾
		T5	-196	72	72	72	100	68	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	59	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⁾

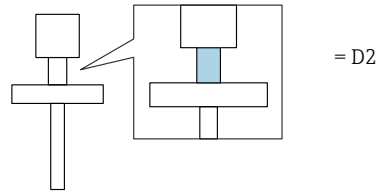
1) Only in connection with Optional specification, ID Jx = JN

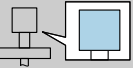
2) Functional: Maximum permissible process temperature

 = 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	-23 -34 ¹⁾
		T5	-196	72	72	72	100	69	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⁾

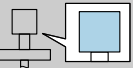
1) Only in connection with Optional specification, ID Jx = JN

2) Functional: Maximum permissible process temperature

FMP54


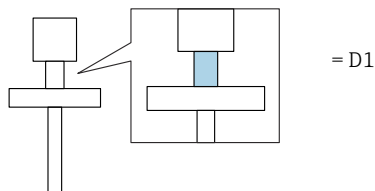
 = B	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	57	57	57	85	55	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T5	-196	72	72	72	100	70	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T4	-196	75	75	75	135	71	135	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T3	-196	75	75	75	200	66	200	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T2	-196	75	75	75	300	58	300	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T1	-196	75	75	75	450	47	450	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾

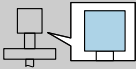
1) Only in connection with Optional specification, ID Jx = JN

 = 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
	E, G	T6	-196	57	57	57	85	55	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T5	-196	72	72	72	100	70	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T4	-196	75	75	75	135	71	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	59	300	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T1	-196	75	75	75	450	49	450	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾

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

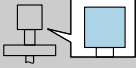
 Explosion protection "Flameproof enclosure Ex db"

FMP54

 = 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	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	59	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⁾

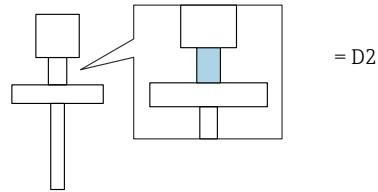
1) Only in connection with Optional specification, ID Jx = JN

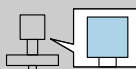
2) Functional: Maximum permissible process temperature

 = 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	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⁾

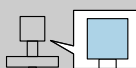
1) Only in connection with Optional specification, ID Jx = JN

2) Functional: Maximum permissible process temperature

FMP54


 = 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	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	75	75	75	135	71	135	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T3	-196	75	75	75	200	66	200	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T2	-196	75	75	75	300	58	300	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾
		T1	-196	75	75	75	450	47	450	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-26 -37 ¹⁾

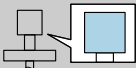
1) Only in connection with Optional specification, ID Jx = JN

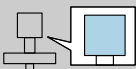
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	60	60	60	85	58	85	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T5	-196	75	75	75	100	73	100	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T4	-196	75	75	75	135	71	135	-40 -50 ¹⁾	-40 -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	59	300	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾
		T1	-196	75	75	75	450	49	450	-40 -50 ¹⁾	-40 -50 ¹⁾	-40 -50 ¹⁾	-196	-27 -37 ¹⁾

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

 Explosion protection "Intrinsic safety Ex ia"

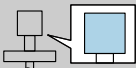
FMP55

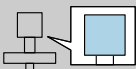
 = B	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	57	57	57	85	51	85	-40	-40	-40	-50	-37
		T5	-50	72	72	72	100	66	100	-40	-40	-40	-50	-37
		T4	-50	75	75	75	135	62	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	47	200	-40	-40	-40	-50	-37

 = 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
	E, G	T6	-50	57	57	57	85	51	85	-40	-40	-40	-50	-37
		T5	-50	72	72	72	100	66	100	-40	-40	-40	-50	-37
		T4	-50	75	75	75	135	63	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	51	200	-40	-40	-40	-50	-37

 Explosion protection "Flameproof enclosure Ex db"

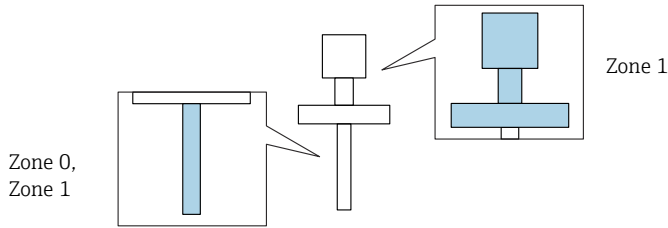
FMP55

 = 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
	E, G	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	75	75	75	135	62	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	47	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
	E, G	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	63	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	51	200	-40	-40	-40	-50	-37

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

Probe design: remote
Position 3= E, G: 1 channel used
Optional specification, ID Mx = MB, MC, MD



 Explosion protection "Intrinsic safety Ex ia"

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
	E, G	T6	–	60	–	60	–	60	–	–40	–	–40	–	–
		T5	–	75	–	75	–	75	–	–40	–	–40	–	–

1) T_p = dependent on the sensor

 Explosion protection "Flameproof enclosure Ex db"

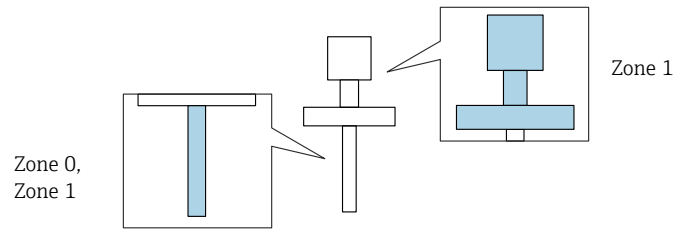
FMP5x

 = 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
	E, G	T6	–	60	–	60	–	60	–	–40	–	–40	–	–
		T5	–	75	–	75	–	75	–	–40	–	–40	–	–

1) T_p = dependent on the sensor

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

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



 Explosion protection "Intrinsic safety Ex ia"

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
	E, G	T6	–	57	–	57	–	57	–	–40	–	–40	–	–
		T5	–	72	–	72	–	72	–	–40	–	–40	–	–

1) T_p = dependent on the sensor

 Explosion protection "Flameproof enclosure Ex db"

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
	E, G	T6	–	60	–	60	–	60	–	–40	–	–40	–	–
		T5	–	75	–	75	–	75	–	–40	–	–40	–	–

1) T_p = dependent on the sensor



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