

Safety Instructions

Levelflex FMP51/52/54/55

PROFIBUS PA, FOUNDATION Fieldbus

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Levelflex FMP51/52/54/55

PROFIBUS PA, FOUNDATION Fieldbus

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Zone 2: Remote; 2 channels 17

Associated documentation

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

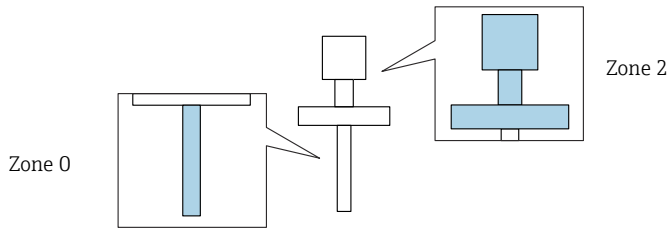
ATEX, IECEX:
XA00517F/00

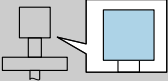
UK:
XA02530F/00

EAC:
XA01693F/00

**Zone 0, Zone 2: Compact;
1 channel**

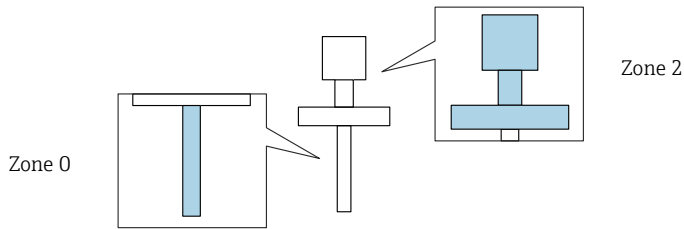
Probe design: compact
Position 3 = E, G: 1 channel used

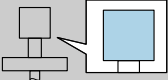


 = B, C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-20	60	60	60	60	60	60	-40	-20	-40	-	-
		T5	-20	75	60	75	60	75	60	-40	-20	-40	-	-

**Zone 0, Zone 2: Compact;
2 channels**

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



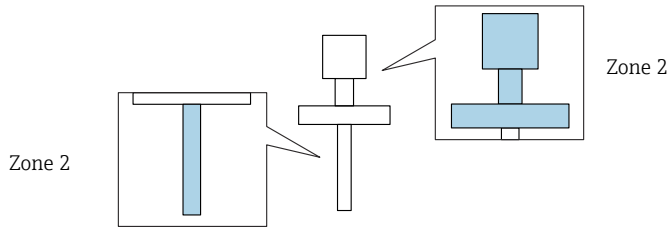
 = B, C	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-20	59	59	59	59	59	60	-40	-20	-40	-	-
		T5	-20	74	60	74	60	74	60	-40	-20	-40	-	-

Zone 2: Compact; 1 channel

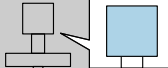
Probe design: compact
Position 3 = E, G: 1 channel used

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

- FMP51 → 6
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- FMP54 → 8
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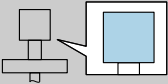


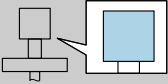
FMP51

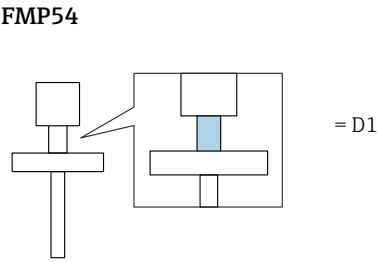
 = B	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-40	60	60	60	85	51	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	66	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	67	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	48	200	-40	-40	-40	-	-

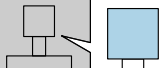
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	69	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	56	200	-40	-40	-40	-	-

FMP52

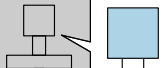
 = B	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	60	60	60	85	52	85	-40	-40	-40	-50	-37
		T5	-50	75	75	75	100	67	100	-40	-40	-40	-50	-37
		T4	-50	80	80	80	135	68	135	-40	-40	-40	-50	-37
		T3	-50	80	80	80	200	52	200	-40	-40	-40	-50	-37

 = 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

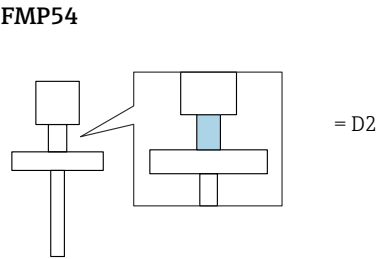


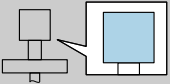
 = B	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	60	60	60	85	56	85	-40	-40	-40	-196	-16
		T5	-196	75	75	75	100	71	100	-40	-40	-40	-196	-16
		T4	-196	80	80	80	135	73	135	-40	-40	-40	-196	-16
		T3	-196	80	80	80	200	64	200	-40	-40	-40	-196	-16
		T2 ¹⁾	-196	80	80	80	280	54	280	-40	-40	-40	-196	-16

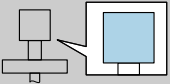
1) Functional: Maximum permissible process temperature

 = C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-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	80	80	80	135	75	135	-40	-40	-40	-196	-23
		T3	-196	80	80	80	200	68	200	-40	-40	-40	-196	-23
		T2 ¹⁾	-196	80	80	80	280	60	280	-40	-40	-40	-196	-23

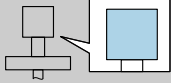
1) Functional: Maximum permissible process temperature

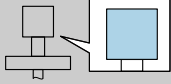


 = B	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	60	60	60	85	57	85	-40	-40	-40	-196	-26
		T5	-196	75	75	75	100	72	100	-40	-40	-40	-196	-26
		T4	-196	80	80	80	135	76	135	-40	-40	-40	-196	-26
		T3	-196	80	80	80	200	71	200	-40	-40	-40	-196	-26
		T2	-196	80	80	80	300	64	300	-40	-40	-40	-196	-26
		T1	-196	80	80	80	450	52	450	-40	-40	-40	-196	-26

 = 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	-40	-40	-196	-27
		T5	-196	75	75	75	100	73	100	-40	-40	-40	-196	-27
		T4	-196	80	80	80	135	76	135	-40	-40	-40	-196	-27
		T3	-196	80	80	80	200	72	200	-40	-40	-40	-196	-27
		T2	-196	80	80	80	300	65	300	-40	-40	-40	-196	-27
		T1	-196	80	80	80	450	54	450	-40	-40	-40	-196	-27

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 = 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

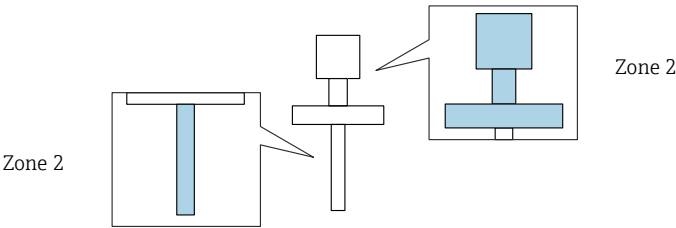
 = C	(1)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	60	60	60	85	54	85	-40	-40	-40	-50	-37
		T5	-50	75	75	75	100	69	100	-40	-40	-40	-50	-37
		T4	-50	80	80	80	135	69	135	-40	-40	-40	-50	-37
		T3	-50	80	80	80	200	57	200	-40	-40	-40	-50	-37

Zone 2: Compact; 2 channels

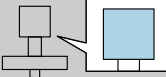
Probe design: compact
Position 3 = E, G: 2 channels used

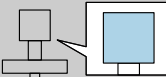
Page references to the temperature tables of the respective device types: See the following list.

- FMP51 → 11
- FMP52 → 12
- FMP54 → 13
- FMP55 → 15

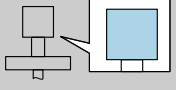


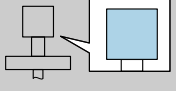
FMP51

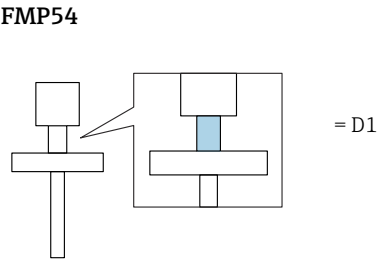
 = B	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-40	60	60	60	85	51	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	66	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	61	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	45	200	-40	-40	-40	-	-

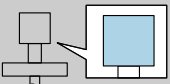
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	63	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	50	200	-40	-40	-40	-	-

FMP52

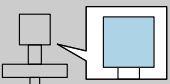
 = B	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	60	60	60	85	52	85	-40	-40	-40	-50	-37
		T5	-50	75	75	75	100	67	100	-40	-40	-40	-50	-37
		T4	-50	75	75	75	135	62	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	47	200	-40	-40	-40	-50	-37

 = 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

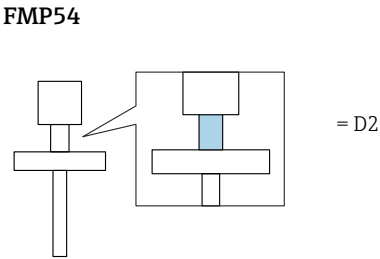


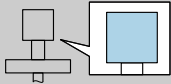
 = B	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	60	60	60	85	56	85	-40	-40	-40	-196	-16
		T5	-196	75	75	75	100	71	100	-40	-40	-40	-196	-16
		T4	-196	75	75	75	135	67	135	-40	-40	-40	-196	-16
		T3	-196	75	75	75	200	59	200	-40	-40	-40	-196	-16
		T2 ¹⁾	-196	75	75	75	280	48	280	-40	-40	-40	-196	-16

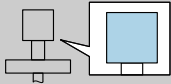
1) Functional: Maximum permissible process temperature

 = C	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-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	75	75	75	135	69	135	-40	-40	-40	-196	-23
		T3	-196	75	75	75	200	63	200	-40	-40	-40	-196	-23
		T2 ¹⁾	-196	75	75	75	280	55	280	-40	-40	-40	-196	-23

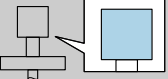
1) Functional: Maximum permissible process temperature

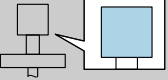


 = B	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-196	59	59	59	85	57	85	-40	-40	-40	-196	-26
		T5	-196	74	74	74	100	72	100	-40	-40	-40	-196	-26
		T4	-196	75	75	75	135	71	135	-40	-40	-40	-196	-26
		T3	-196	75	75	75	200	66	200	-40	-40	-40	-196	-26
		T2	-196	75	75	75	300	58	300	-40	-40	-40	-196	-26
		T1	-196	75	75	75	450	47	450	-40	-40	-40	-196	-26

 = 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	59	59	59	85	58	85	-40	-40	-40	-196	-27
		T5	-196	74	74	74	100	73	100	-40	-40	-40	-196	-27
		T4	-196	75	75	75	135	71	135	-40	-40	-40	-196	-27
		T3	-196	75	75	75	200	66	200	-40	-40	-40	-196	-27
		T2	-196	75	75	75	300	59	300	-40	-40	-40	-196	-27
		T1	-196	75	75	75	450	49	450	-40	-40	-40	-196	-27

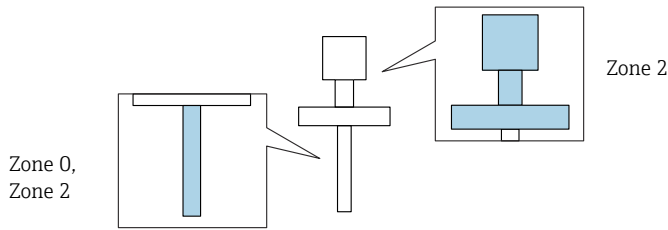
FMP55

 = 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

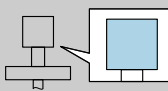
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a	T _p	T _a
	E, G	T6	-50	60	60	60	85	54	85	-40	-40	-40	-50	-37
		T5	-50	75	75	75	100	69	100	-40	-40	-40	-50	-37
		T4	-50	75	75	75	135	63	135	-40	-40	-40	-50	-37
		T3	-50	75	75	75	200	51	200	-40	-40	-40	-50	-37

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

Probe design: remote
Position 3 = E, G: 1 channel used
Position 1, 2 = xD
Optional specification, ID Mx = MB, MC, MD



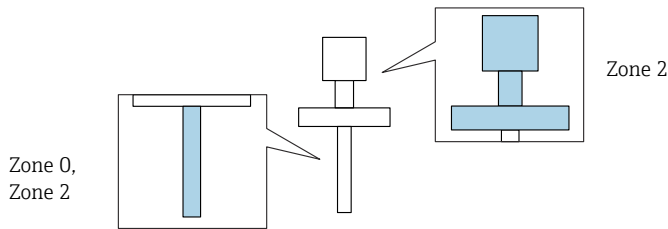
FMP5x

 = 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
	E, G	T6	-	60	-	60	-	60	-	-40	-	-40	-
		T5	-	80	-	80	-	80	-	-40	-	-40	-

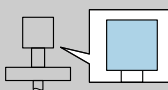
1) T_p = dependent on the sensor

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

Probe design: remote
Position 3 = E, G: 2 channels used
Position 1, 2 = xD
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
	E, G	T6	-	59	-	59	-	59	-	-40	-	-40	-
		T5	-	74	-	74	-	74	-	-40	-	-40	-

1) T_p = dependent on the sensor

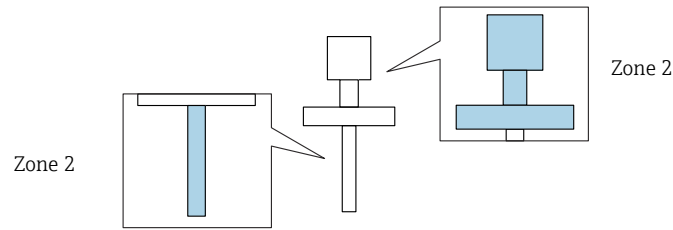
Zone 2: Remote; 1 channel

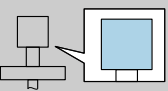
Probe design: remote

Position 3 = E, G: 1 channel used

Position 1, 2 = xL

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
	E, G	T6	-	60	-	60	-	60	-	-40	-	-40	-	-
		T5	-	80	-	80	-	80	-	-40	-	-40	-	-

1) T_p = dependent on the sensor

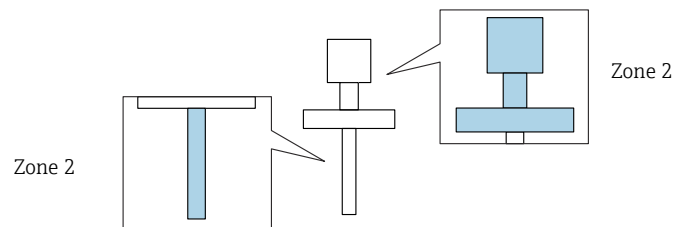
Zone 2: Remote; 2 channels

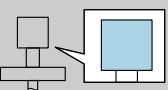
Probe design: remote

Position 3 = E, G: 2 channels used

Position 1, 2 = xL

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
	E, G	T6	-	59	-	59	-	59	-	-40	-	-40	-	-
		T5	-	74	-	74	-	74	-	-40	-	-40	-	-

1) T_p = dependent on the sensor



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