Product overview



Differential pressure measurement

for precise detection and control of differential pressures





Delta-p measurement









Designation Function	HE 5409 dp-measuring transducer	HE 5410 dp-measuring transducer	HE 5411 Lite dp-measuring transducer	HE 5411 Basic dp-measuring transducer
Measuring ranges/ Overload	025; 0 - 50 / 750 mbar 0100 / 750 mbar 01000 / 4000 mbar	9 measuring ranges from 2.5 1000 mbar	8 measuring ranges from ± 1.25 mbar: 1000 mbar/max. Overpressure of 0.35 – 5 bar	8 measuring ranges from ± 1.25 mbar: 1000 mbar/max. Overpressure of 0.35 – 5 bar
Auxiliary energy	10 36 V DC	11 36 V DC	19 30 V DC / 100 240 V AC	19 30 V DC / 100 240 V AC
Pressure connection	Push-in fitting 6 mm external	Hose nipple 6 mm inside	Push-in fitting 6 mm external	Push-in fitting 6 mm external
Output signals	4 20 mA, 2-wire system	4 20 mA, 2-wire system	0 10 V, 4 20 mA	0 10 V, 4 20 mA
Switching outputs	-	-	-	-
Inputs	-	-	-	-
Displays	-	-	-	4-digit 7-segment
Key operation	-	-	-	-
PC parametrisation	-	-	yes	yes
Housing	Dustproof plastic housing	Plastic housing	Dustproof plastic housing	Dustproof plastic housing
$\langle E_X \rangle$ ATEX approval	Zone 2 + 22	-	Zone 2 + 22 *	Zone 2 + 22 *
Mounting	Wall mounting	Top hat rail mounting	Wall mounting	Wall mounting
Dimensions (W × H × D)	113 × 80 × 60 mm	22,5 × 113 × 115 mm	113 × 80 × 60 mm	113 × 80 × 60 mm
Advantages and special features	Zero point adjustment (button)	Zero point adjustment (pot)	Zero point adjustment (button) Test output signal (50%) Measuring range linear/square root	Zero point adjustment (button) Test output signal (50%) Measuring range linear/square root
Danges of application	(1)	/ontilation/air conditioning took	nology / Firing/booting took	cology / Filter menitoring

Ranges of application

✓ Ventilation/air conditioning technology ✓ Firing/heating technology ✓ Filter monitoring







Small difference - big effect









✓ Chemical & heavy industry

HE 5411 Premium dp-measuring transducer	HE 5422 / HE 5422 HD dp-Regulator	HE 5422 MR dp-Controller with measuring hose cleaning	HE 5425 dp-measuring transducer
8 measuring ranges from ± 1.25 mbar: 1000 mbar/max. Overpressure of 0.35 – 5 bar	7 measuring ranges from ± 2.5 1000 mbar/max. Overpressure of 0.35 – 5 bar	035 / 160 mbar 090 / 400 mbar 0450 / 2000 mbar	6 measuring ranges from ± 10 mbar ± 100 bar
19 30 V DC / 100 240 V AC	24 V DC / 100 240 V AC	24 V DC / 100 240 V AC	15 45 V DC (Power loop)
Push-in fitting 6 mm external	Push-in fitting 6 mm external	Push-in fitting 6 mm external 1×8 mm for air blast (8 bar)	14-18 NPT
0 10 V, 4 20 mA	0 10 V, 4 20 mA	420mA	4 20 mA, 2-wire, HART **
1 × changeover contact 250 V AC, 5 A (limit value)	1× changeover contact (operation/fault) 1× changeover contact (cleaning) 2× changeover contacts (alarms)	1× changeover contact (operation/fault) 1× changeover contact (cleaning) 2× changeover contacts (alarms)	dp; derived from: Flow rate (volume and measured flow), fill level (level, volume, mass)
-	3 × digital inputs 24 V DC: start, post-cleaning, hold measured value	2 × digital inputs 24 V DC: start, post-cleaning,	-
4-digit 7-segment LED limit value display	4-digit 7-segment 8 × LED status displays 16 × LED differential pressure column	3-digit 7-segment 11 × LED status displays 16 × LED differential pressure column	5-digit, 7-segment, 8 mm 8-digit, 14-segment, 5 mm bargraph 2 % resolution
yes	yes	yes	yes
yes	yes	yes	yes
Dustproof plastic housing	Dustproof plastic housing/ Die-cast aluminum housing	Dustproof plastic housing	Diecast aluminum housing, stainless steel, laminated safety glass
Zone 22 *	Zone 22	Zone 22	-
Wall mounting	Wall mounting	Wall mounting	Wall and pipe mounting
113 × 80 × 60 mm	113 × 80 × 60 / 159 × 128 × 60 mm	200 × 150 × 100 mm	130 × 205 × 128 mm
Zero point adjustment (button)Test output signal (50%)Measuring range linear/square root	LED differential pressure column Intuitive, simple operation HD version in robust die-cast aluminum housing	LED differential pressure column Intuitive, simple operation Automatic cleaning of the sample gas line	HD version in robust die-cast aluminum housing Housing can be rotated 360° Display can be rotated 360°
	✓ Control ✓ Monitor	✓ Power plant technology	

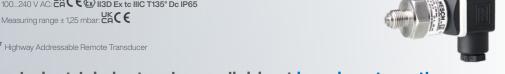


19...36 V DC (Lite, Basic, Premium) except for measuring range ± 1,25 mbar: ☐ € € II3D Ex tc IIIC T135° Dc IP65

19...36 V DC (Lite, Basic) except for measuring range ± 1,25 mbar: ☐ € € II3G Ex nR IIC T4 Gc

100...240 ∨ AC: CK € II3D Ex tc IIIC T135° Dc IP65

^{**} Highway Addressable Remote Transducer



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