

Pressure instrumentation

Selection guide for pressure,
differential pressure,
level and flow measurement

Pressure





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Process applications – Ceraphant

Ceraphant 3x		
	PTP31B	PTC31B
		
Areas of application	Standard measurement <ul style="list-style-type: none"> ■ Process pressure ■ Pressure switch 	Standard measurement <ul style="list-style-type: none"> ■ Process pressure ■ Pressure switch
Measuring principle		
■ Gauge pressure	✓	✓
■ Absolute pressure	✓	✓
Measuring range	400 mbar to 400 bar (6 to 6,000 psi)	100 mbar to 40 bar (1.5 to 600 psi)
Turn down	Up to 5:1	Up to 5:1
Measuring cell	Metallic measuring cell	Ceramic measuring cell
Output	<ul style="list-style-type: none"> ■ 1 x switch output (PNP) ■ 2 x switch outputs (PNP) ■ 1 x switch output (PNP) + 4 to 20mA analog 	<ul style="list-style-type: none"> ■ 1 x switch output (PNP) ■ 2 x switch outputs (PNP) ■ 1 x switch output (PNP) + 4 to 20mA analog
Process temperature	-40 to +100 °C (-40 to +212 °F)	-25 to +100 °C (-13 to +212 °F)
Accuracy	Up to ±0.3 %	Up to ±0.3 %
Long-term stability	1 year: ±0.2 %	1 year: ±0.2 %
Process connections	Threads: <ul style="list-style-type: none"> ■ ISO228: G1/4, G1/2 ■ ASME: MNPT1/4, MNPT1/2 ■ DIN13: Metric M20x1.5 ■ JIS R1/2 	Threads: <ul style="list-style-type: none"> ■ ISO228: G1/4, G1/2 ■ ASME: MNPT1/4, MNPT1/2 ■ DIN13: Metric M20x1.5 ■ JIS R1/2
Features	Very compact, fully welded, display	Very compact, fully welded, display



Process applications – Cerabar

	Cerabar 11		Cerabar 21	
	PMP11	PMC11	PMP21	
				
Areas of application	Standard measurement <ul style="list-style-type: none">■ Process pressure	Standard measurement <ul style="list-style-type: none">■ Process pressure	Standard measurement <ul style="list-style-type: none">■ Process pressure	
Measuring principle				
■ Gauge pressure	✓	✓	✓	
■ Absolute pressure			✓	
Measuring range	400 mbar to 40 bar (6 to 600 psi)	400 mbar to 40 bar (6 to 600 psi)	400 mbar to 400 bar (6 to 6,000 psi)	
Turn down	Up to 5:1	Up to 5:1	Up to 5:1	
Measuring cell	Metallic measuring cell	Ceramic measuring cell	Metallic measuring cell	
Output	■ 4 to 20 mA ■ 0 to 10 V	■ 4 to 20 mA ■ 0 to 10 V	■ 4 to 20 mA	
Process temperature	-25 to +85 °C (-13 to +185 °F)	-25 to +85 °C (-13 to +185 °F)	-40 to +100 °C (-40 to +212 °F)	
Accuracy	Up to ±0.5 %	Up to ±0.5 %	Up to ±0.3 %	
Long-term stability	1 year: ±0.2 % 5 years: ±0.4 % 8 years: ±0.45 %	1 year: ±0.2 % 5 years: ±0.4 % 8 years: ±0.45 %	1 year: ±0.2 % 5 years: ±0.4 % 8 years: ±0.45 %	
Process connections	Threads: <ul style="list-style-type: none">■ ISO228: G1/4, G1/2■ ASME: MNPT1/4, MNPT1/2■ DIN13: Metric M20x1.5	Threads: <ul style="list-style-type: none">■ ISO228: G1/4, G1/2■ ASME: MNPT1/4, MNPT1/2■ DIN13: Metric M20x1.5	Threads: <ul style="list-style-type: none">■ ISO228: G1/4, G1/2■ ASME: MNPT1/4, MNPT1/2■ DIN13: Metric M20x1.5■ JIS R1/2	
Features	Very compact, fully welded	Very compact, fully welded	Very compact, fully welded	

PMC21



Standard measurement

- Process pressure

✓

✓

100 mbar to 40 bar
(1.5 to 600 psi)

Up to 5:1

Ceramic measuring cell

- 4 to 20 mA

-25 to +100 °C
(-13 to +212 °F)

Up to ±0.3 %

1 year: ±0.2 %
5 years: ±0.4 %
8 years: ±0.45 %



Threads:

- ISO228: G1/4, G1/2
- ASME: MNPT1/4, MNPT1/2
- DIN13: Metric M20x1.5
- JIS R1/2

Very compact,
fully welded





Process applications – Cerabar

	Cerabar 50	
	<p>PMP50</p> 	<p>PMP50</p> 
Areas of application	Digital pressure transmitter <ul style="list-style-type: none"> ■ Process pressure ■ Level 	Digital pressure transmitter <ul style="list-style-type: none"> ■ Process pressure ■ Level
Measuring principle		
<ul style="list-style-type: none"> ■ Gauge pressure 	✓	✓
<ul style="list-style-type: none"> ■ Absolute pressure 	✓	✓
Measuring range	1 bar to 400 bar (14.5 to 6,000 psi)	1 bar to 400 bar (14.5 to 6,000 psi)
Turn down	Up to 100:1	Up to 100:1
Measuring cell	Metallic measuring cell	Metallic measuring cell, diaphragm seal
Output	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® 	<ul style="list-style-type: none"> ■ 4 to 20 mA HART®
Process temperature	Standard: -40 to +125 °C (-40 to +257 °F)	Diaphragm seal: -40 to +400 °C (-40 to +752 °F)
Accuracy	Up to ±0.055 %	Up to ±0.15 %
Long-term stability	1 year: ± 0.1 % 5 years: ± 0.2 % 10 years: ± 0.25 %	1 year: ± 0.1 % 5 years: ± 0.2 % 10 years: ± 0.25 %
Process connections	<ul style="list-style-type: none"> ■ Thread: FNPT, MNPT, G1/2, M20x1.5, Oval flange NPT1/4-18 	<ul style="list-style-type: none"> ■ Thread: MNPT, G1/2, M20x1.5 ■ Flange: ASME, RF; EN1092-1; RF
Features	Modular, 2 chamber housing with integrated display and external zero/span buttons	Modular, 2 chamber housing with integrated display and external zero/span buttons





Process applications – Cerabar

Cerabar 51B		
	PMP51B	PMC51B
		
Areas of application	Compact robust pressure transmitter <ul style="list-style-type: none">■ Process pressure■ Level	Compact robust pressure transmitter <ul style="list-style-type: none">■ Process pressure■ Level
Measuring principle		
■ Gauge pressure	✓	✓
■ Absolute pressure	✓	✓
Measuring range	400 mbar to 400 bar (6 to 6,000 psi)	100 mbar to 40 bar (1.5 to 600 psi)
Turn down	Up to 100:1	Up to 100:1
Measuring cell	Metallic measuring cell, diaphragm seal	Ceramic measuring cell
Output	<ul style="list-style-type: none">■ 4 to 20 mA analog■ 4 to 20 mA HART®■ PROFINET over Ethernet-APL	<ul style="list-style-type: none">■ 4 to 20 mA analog■ 4 to 20 mA HART®■ PROFINET over Ethernet-APL
Process temperature	-70 to +400 °C (-94 to +752 °F)	-40 to +100 °C (-40 to +212 °F)
Accuracy	Up to ±0.055 %	Up to ±0.055 %
Long-term stability	1 year: ±0.1 % 5 years: ±0.2 % 10 years: ±0.25 %	1 year: ±0.1 % 5 years: ±0.25 % 10 years: ±0.4 %
Process connections	<ul style="list-style-type: none">■ Thread: ASME, M/NPT; ISO228, G; DIN13, metric■ Flange: ASME, RF; EN1092-1	<ul style="list-style-type: none">■ Thread: ASME, M/NPT; ISO228, G; JIS; DIN13, metric■ Flange: ASME, RF; EN1092-1; JIS, RF
Features	Modular, 1 or 2 chamber housing, segment display, Bluetooth	Modular, 1 or 2 chamber housing, segment display, Bluetooth





Process applications – Cerabar

Cerabar 71B

	PMP71B	PMC71B
		
Areas of application	High performance process pressure measurement <ul style="list-style-type: none"> ■ Process pressure ■ Level 	High performance process pressure measurement <ul style="list-style-type: none"> ■ Process pressure ■ Level
Measuring principle		
■ Gauge pressure	✓	✓
■ Absolute pressure	✓	✓
Measuring range	400 mbar to 700 bar (6 to 10,150 psi)	100 mbar to 40 bar (1.5 to 600 psi)
Turn down	Up to 100:1	Up to 100:1
Measuring cell	Metallic measuring cell, diaphragm seal	Ceramic measuring cell
Output	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® ■ PROFINET over Ethernet-APL ■ PROFIBUS PA 	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® ■ PROFINET over Ethernet-APL ■ PROFIBUS PA
Process temperature	-70 to +400 °C (-94 to +752 °F)	-25 to +150 °C (-13 to +302 °F)
Accuracy	Up to ±0.025 %	Up to ±0.025 %
Long-term stability	1 year: ±0.05 % 5 years: ±0.07 % 10 years: ±0.1 %	1 year: ±0.05 % 5 years: ±0.08 % 10 years: ±0.1 %
Process connections	<ul style="list-style-type: none"> ■ Thread: ASME, M/NPT; ISO228, G; JIS; DIN13, metric ■ Flange: ASME, RF; EN1092-1; JIS, RF ■ Separator (thread), barrel (flange), pancake 	<ul style="list-style-type: none"> ■ Thread: ASME, M/NPT; ISO228, G; JIS; DIN13, metric ■ Flange: ASME, RF; EN1092-1; JIS, RF
Features	Bluetooth, 1 or 2 chamber housing, graphic or segment display, Heartbeat Technology, HistoROM	Bluetooth, 1 or 2 chamber housing, graphic or segment display, Heartbeat Technology, HistoROM





Process applications – Deltabar

Deltabar		
	<div>PMD50</div> 	<div>PMD55B</div> 
Areas of application	Compact differential pressure transmitter <ul style="list-style-type: none">■ Differential pressure■ Level■ Flow	Compact robust differential pressure transmitter <ul style="list-style-type: none">■ Differential pressure■ Level■ Flow
Measuring principle	Differential pressure	Differential pressure
Measuring range	100 mbar to 40 bar (1.45 to 600 psi)	10 mbar to 40 bar (0.15 to 600 psi)
Turn down	Up to 100:1	Up to 100:1
Measuring cell	Metallic measuring cell	Metallic measuring cell
Output	■ 4 to 20 mA HART®	■ 4 to 20 mA HART® ■ PROFINET over Ethernet-APL
Process temperature	–40 to +110 °C (–40 to +230 °F)	–40 to +110 °C (–40 to +230 °F)
Accuracy	Up to ±0.055 %	Up to ±0.055 %
Long-term stability	1 year: ±0.05 % 5 years: ±0.15 % 10 years: ±0.25 %	1 year: ±0.05 % 5 years: ±0.13 % 10 years: ±0.23 %
Process connections	NPT1/4-18 IEC61518	■ NPT1/4-18 IEC61518, DIN19213, coplanar compatible, NPT1/4-18 ■ RC1/4"
Features	Modular, 2 chamber housing with integrated display and external zero/span buttons	Modular, 1 or 2 chamber housing, segment display, Bluetooth





Process applications – Deltabar

Deltabar 7xB		
	PMD75B	PMD78B
		
Areas of application	High performance differential pressure measurement <ul style="list-style-type: none">■ Differential pressure■ Level■ Flow	High performance differential pressure measurement <ul style="list-style-type: none">■ Differential pressure■ Level
Measuring principle	<ul style="list-style-type: none">■ Differential pressure■ Gauge and absolute pressure	<ul style="list-style-type: none">■ Differential pressure
Measuring range	10 mbar to 40 bar (0.15 to 600 psi) 160/240 bar gauge/absolute	100 mbar to 40 bar (1.5 to 600 psi) on both sides
Turn down	Up to 100:1	Up to 100:1
Measuring cell	Metallic measuring cell	Metallic measuring cell, diaphragm seal
Output	<ul style="list-style-type: none">■ 4 to 20 mA HART®■ PROFINET over Ethernet-APL■ PROFIBUS PA	<ul style="list-style-type: none">■ 4 to 20 mA HART®■ PROFINET over Ethernet-APL■ PROFIBUS PA
Process temperature	-40 to +110 °C (-40 to +230 °F)	-70 to +400 °C (-94 to +752 °F)
Accuracy	Up to ±0.035 %	Up to ±0.075 %
Long-term stability	1 year: ±0.025 % 5 years: ±0.05 % 10 years: ±0.1 %	1 year: ±0.025 % 5 years: ±0.05 % 10 years: ±0.1 %
Process connections	<ul style="list-style-type: none">■ IEC61518, DIN19213, coplanar compatible, NPT1/4-18■ RC1/4"	<ul style="list-style-type: none">■ Flange: ASME, RF; EN1092-1; JIS, RF■ Separator (thread), barrel (flange), pancake
Features	Bluetooth, 1 or 2 chamber housing, graphic or segment display, Heartbeat Technology, HistoROM	Bluetooth, 1 or 2 chamber housing, graphic or segment display, Heartbeat Technology, HistoROM





Process applications – Deltabar

	Deltabar 7x	
	FMD71	FMD72
		
Areas of application	High-performance electronic dp level measurement <ul style="list-style-type: none">■ Electronic differential pressure■ Level	High-performance electronic dp level measurement <ul style="list-style-type: none">■ Electronic differential pressure■ Level
Measuring principle	Electronic differential pressure	Electronic differential pressure
Measuring range	100 mbar to 40 bar (1.5 to 600 psi)	400 mbar to 10 bar (6 to 150 psi)
Turn down	Up to 100:1	Up to 100:1
Measuring cell	Ceramic measuring cell	Metallic measuring cell
Output	■ 4 to 20 mA HART®	■ 4 to 20 mA HART®
Process temperature	-25 to +125 °C/150 °C (-13 to +257 °F/302 °F) higher temperatures on request	-40 to +125 °C/150 °C (-40 to +257 °F/302 °F) higher temperatures on request
Accuracy	single sensor up to ±0.05 %, system up to ±0.075 %	single sensor up to ±0.05 %, system up to ±0.075 %
Long-term stability	1 year: ±0.05 % 10 years: ±0.2 %	1 year: ±0.05 % 10 years: ±0.1 %
Process connections	Thread, flange, flush-mounted connections	Thread, flange, flush-mounted connections
Features	Modular, 2 chamber housing, dot-matrix display	Modular, 2 chamber housing, dot-matrix display






Process applications – Waterpilot

	Waterpilot	
	<div>FMX11</div> 	<div>FMX21</div> 
Areas of application	Level probe for level measurement in fresh water	Level probe for level measurement in fresh water, waste water and salt water
Measuring principle	Hydrostatic pressure, gauge pressure	Hydrostatic pressure, gauge and absolute pressure
Measuring range	200 mbar to 2 bar (3 to 30 psi)	100 mbar to 20 bar (1.5 to 300 psi)
Turn down	Up to 10:1	Up to 10:1
Measuring cell	Metallic measuring cell	Ceramic measuring cell
Output	<ul style="list-style-type: none">■ 4 to 20 mA analog	<ul style="list-style-type: none">■ 4 to 20 mA analog■ 4 to 20 mA HART®■ optional Pt100
Process temperature	-10 to +70 °C (+14 to +158 °F)	-10 to +70 °C (+14 to +158 °F)
Accuracy	Up to ±0.35 %	Up to ±0.1 %
Long-term stability	1 year: ±0.1 % 5 years: ±0.25 %	1 year: ±0.1 % 5 years: ±0.25 %
Process connections	Suspension clamp, cable gland G 1½" A or NPT 1½"	Suspension clamp, cable gland G 1½" A or NPT 1½"
Features	Very compact level probe	Level probe









Process applications – Deltapilot

	Deltapilot		
	FMB51	FMB52	FMB53
			
Areas of application	Compact level measurement	Compact level measurement	Compact level measurement
Measuring principle	Hydrostatic pressure, gauge pressure	Hydrostatic pressure, gauge pressure	Hydrostatic pressure, gauge pressure
Measuring range	100 mbar to 10 bar (1.5 to 150 psi)	100 mbar to 10 bar (1.5 to 150 psi)	100 mbar to 10 bar (1.5 to 150 psi)
Turn down	Up to 20:1	Up to 20:1	Up to 20:1
Measuring cell	Contite metallic measuring cell	Contite metallic measuring cell	Contite metallic measuring cell
Output	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® ■ PROFIBUS® PA ■ FOUNDATION™ fieldbus 	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® ■ PROFIBUS® PA ■ FOUNDATION™ fieldbus 	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® ■ PROFIBUS® PA ■ FOUNDATION™ fieldbus
Process temperature	-10 to +85 °C (+14 to +185 °F)	With PE cable: -10 to +70 °C (+14 to +158 °F) With FEP cable: -10 to +80 °C (+14 to +176 °F)	With PE cable: -10 to +70 °C (+14 to +158 °F) With FEP cable: -10 to +80 °C (+14 to +176 °F)
Accuracy	Up to ±0.1 %	Up to ±0.1 %	Up to ±0.1 %
Long-term stability	1 year: ±0.1 % 5 years: ±0.25 %	1 year: ±0.05 % 5 years: ±0.125 %	1 year: ±0.05 % 5 years: ±0.125 %
Process connections	<ul style="list-style-type: none"> ■ Thread: ASME, M/NPT; ISO228, G; ■ Flange: ASME, RF; EN1092-1; JIS, RF 	<ul style="list-style-type: none"> ■ Thread: ASME, M/NPT; ISO228, G; ■ Flange: ASME, RF; EN1092-1; JIS, RF 	Suspension clamp
Features	Modular, 1 chamber housing, dot-matrix display	Modular, 1 chamber housing, dot-matrix display	Modular, 1 chamber housing, dot-matrix display





Hygienic applications – Ceraphant/Cerabar

	Cerabar	Ceraphant	Cerabar
	PMP23 	PTP33B 	PMP43 
Areas of application	Standard measurement ■ Process pressure	Standard measurement ■ Process pressure ■ Pressure switch	Standard measurement ■ Process pressure
Measuring principle ■ Gauge pressure	✓	✓	✓
■ Absolute pressure	✓	✓	✓
Measuring range	400 mbar to 40 bar (6 to 600 psi)	400 mbar to 40 bar (6 to 600 psi)	400 mbar to 40 bar (6 to 600 psi)
Turn down	Up to 5:1	Up to 5:1	Up to 5:1
Measuring cell	Metallic measuring cell	Metallic measuring cell	Metallic measuring cell
Output	■ 4 to 20 mA analog ■ IO- Link	■ 1 x switch output (PNP) ■ 2 x switch outputs (PNP) ■ 1 x switch output (PNP) + 4 to 20 mA analog	■ 4 bis 20 mA analog ■ 4 to 20 mA HART® ■ IO- Link
Process temperature	-10 to +100 °C (-40 to +212 °F) +135 °C (+275 °F) for max. 1 hour	-10 to +100 °C (14 to +212 °F) +135 °C (+275 °F) for max. 1 hour	-40 to +200 °C (-40 to +392 °F) +135 °C (+275 °F) for max. 1 hour
Accuracy	Up to ±0.3 %	Up to ±0.3 %	Up to ±0.075 %
Long-term stability	1 year: ±0.2 %	1 year: ±0.2 %	1 year: ±0.2 % 5 years: ±0.4 % 10 years: ±0.5 %
Process connections	Thread, flush-mounted hygiene connections, EHEDG, 3A	Thread, flush-mounted hygiene connections, EHEDG, 3A	Thread, flush-mounted hygiene connections, EHEDG, 3A
Features	Very compact, fully welded, display	Very compact, fully welded, display	Compact; optional with color display and/or Bluetooth

	PMC51	PMC71	PMP75
			
	Compact pressure transmitter <ul style="list-style-type: none">■ Process pressure■ Level	High-performance pressure measurement <ul style="list-style-type: none">■ Process pressure■ Level	High-performance pressure measurement <ul style="list-style-type: none">■ Process pressure■ Level
	✓	✓	✓
	✓	✓	✓
	100 mbar to 40 bar (1.5 to 600 psi)	100 mbar to 40 bar (1.5 to 600 psi)	400 mbar to 400 bar (6 to 6,000 psi)
	Up to 20:1	Up to 100:1	Up to 100:1
	Ceramic measuring cell	Ceramic measuring cell	Metallic measuring cell, diaphragm seal
	<ul style="list-style-type: none">■ 4 to 20 mA analog■ HART®■ PROFIBUS® PA■ FOUNDATION™ fieldbus	<ul style="list-style-type: none">■ 4 to 20 mA HART®■ PROFIBUS® PA■ FOUNDATION™ fieldbus	<ul style="list-style-type: none">■ 4 to 20 mA HART®■ PROFIBUS® PA■ FOUNDATION™ fieldbus
	-40 to +130 °C (-40 to +266 °F) +150 °C (+302 °F) for 1 h	-20 to +150 °C (-4 to +257 °F)	-70 to +400 °C (-94 to +752 °F)
	Up to ±0.075 %	Up to ±0.025 %	Up to ±0.075 %
	1 year: ±0.2 % 5 years: ±0.4 % 10 years: ±0.5 %	1 year: 0.05 % 5 years: 0.08 % 10 years: 0.1 %	1 year: 0.05 % 5 years: 0.07 % 10 years: 0.1 %
	Wide range of flush-mounted hygiene connections EHEDG, 3A, NSF, CoC-ASME BPE	Wide range of flush-mounted hygiene connections EHEDG, 3A	Wide range of flush-mounted hygiene connections EHEDG, 3A
	Modular, 1 chamber housing, dot-matrix display	Modular, 2 chamber housing, dot-matrix display	Modular, 2 chamber housing, dot-matrix display

Hygienic applications – Deltapilot/Deltabar

	Deltapilot	Deltapilot
	FMB50	FMB70
		
Areas of application	Compact level measurement <ul style="list-style-type: none"> ■ Process pressure ■ Level 	High-performance level measurement <ul style="list-style-type: none"> ■ Process pressure ■ Level
Measuring principle	Hydrostatic level Gauge pressure	Hydrostatic level Gauge pressure
Measuring range	100 mbar to 10 bar (1.5 to 150 psi)	100 mbar to 10 bar (1.5 to 150 psi)
Turn down	Up to 20:1	Up to 100:1
Measuring cell	Contite metallic measuring cell	Contite metallic measuring cell
Output	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® ■ PROFIBUS® PA ■ FOUNDATION™ fieldbus 	<ul style="list-style-type: none"> ■ 4 to 20 mA HART® ■ PROFIBUS® PA ■ FOUNDATION™ fieldbus
Process temperature	-10 to +100 °C (+14 to +212 °F) +135 °C (+275 °F) for 30 min.	-10 to +100 °C (+14 to +212 °F) +135 °C (+275 °F) for 30 min.
Accuracy	Up to ±0.1 %	Up to ±0.075 %
Long-term stability	1 year: ±0.05 % 5 years: ±0.25 %	1 year: ±0.05 % 5 years: ±0.125 %
Process connections	Wide range of flush-mounted hygiene connections EHEDG, 3A, NSF, KTW, WHG, CoC-ASME BPE	Wide range of flush-mounted hygiene connections EHEDG, 3A, CoC-ASME BPE
Design	Modular, 1 chamber housing, dot-matrix display	Fully modular, 2 chamber housing, dot-matrix display

Deltabar

FMD78



High-performance pressure measurement

- Differential pressure
- Level

Differential pressure

100 mbar to 40 bar
(1.5 to 600 psi)

Up to 100:1

Metallic measuring cell, diaphragm seal

- 4 to 20 mA HART®
- PROFIBUS® PA
- FOUNDATION™ fieldbus

-70 to +400 °C
(-94 to +752 °F)

Up to ±0.075 %

1 year: ±0.08 %
10 years: ±0.2 %

Wide range of flush-mounted hygiene
connections
EHEDG, 3A

Fully modular, 2 chamber housing,
dot-matrix display



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