

Digital Indicators

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Digital panel meter

48 x 24 mm

Series DV, DT

3 ½ Digits

Technical data		Features
Display	LED with 7 segments, 10 mm high, red	- Without set points - Analog output (option)
Accuracy	+/-0.1% of measuring value, +/-1 digit temperature meter see specification	
Measuring time	1 sec	
Dimension	B48 x H24 x T91 mm (T=101mm, including plug in terminal)	
Assembly cut out	45.0 x 22.2 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 1.5 mm ²	
Working temperature	0 .. 60° C	

Range		24 VDC	24 VDC insulated	List prices €
DC voltage, current 10/50/200 V, 0-(4)-20mA		DV 3.001.736B	DV 3.001.776B	
Direct current (shunt) 60/150/300/1000 mV		DV 3.002.736B	DV 3.002.736B	
Resistance, potentiometer	<= 10 KOhm <= 100 KOhm <= 1 MOhm	DV 3.506.736B DV 3.606.736B DV 3.706.736B	DV 3.506.776B DV 3.606.776B DV 3.706.776B	
Thermocouple L, J, K			DT 3.40x.776B	
Pt 100 2-wire	199,9 ° C 600 ° C		DT 3.202.776B DT 3.206.776B	
Pt 100 2+3-wire	199,9 ° C 600 ° C		DT 3.302.776B DT 3.302.776B	

DV 3.001	DV 3.002	DV 3506/ 3.606/ 3.706
DT 3.40x	DT 3.202/ 3.206	DT 3.302/ 3.306
Typ L (FeCuNi - DIN) -50 up to +500°C Typ J (FeCuNi - americ.) -50 up to +500°C Typ K (NiCrNi) -100 up to +800°C		

Options Series DV, DT

OPTIONS	DV 3.001... DC	DV 3.002... Shunt	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 +3 Wire)	Extra price €
Green LED	x	x	x	x	x	
Protection IP54 at the front (standard plug in terminal)	x	x	x	x	x	
Protection IP65 at the front (standard plug in terminal)	x	x	x	x	x	
Analog output 0-10VDC/2mA	x	x	x	x	x	
Analog output 0-20mA/load 500Ω	x	x	x	x	x	
Analog output 4-20mA/load 500Ω	x	x	x	x	x	
Analog output 0-10VDC/2mA (supply voltage 24 VDC galvanic insulated)	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (supply voltage 24 VDC galvanic insulated)	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (supply voltage 24 VDC galvanic insulated)	x	x	x	x	x	
Analog output with customer specified offset (S26)	x	x	x	x	x	
Dimension strip selectable (max. 8 signs)	x	x	x	x	x	
Other power supplies on demand	x	x	x	x	x	

- Settings ex works with protective system *IP65, adjustable on rear side*

Settings deviating from the standard settings must be indicated in the order description.	Standard	As desired	DV 3.001... DC	DV 3.002... Shunt	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 +3 Wire)
Blanking	no	yes	x	x	x		
Decimal point	102,80	without	x	x	x		
		10,30	x	x	x		



Digital panel meter with microprocessor based technology 4 digits

48 x 24 mm

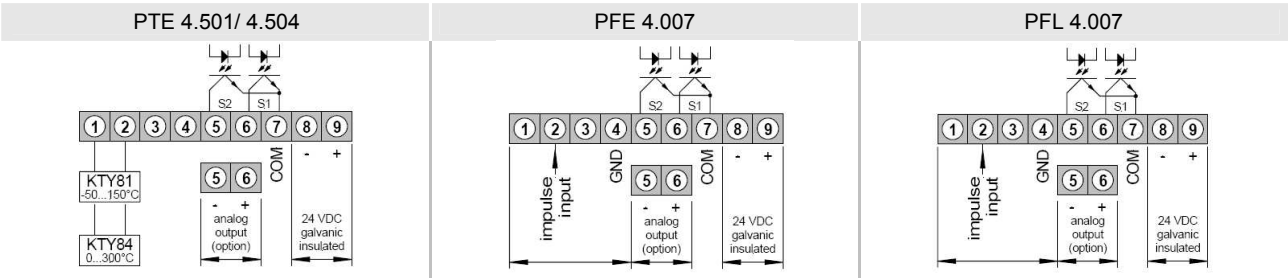
Series PVE4, PTE4, PFE4,
PFL4

Technical data		Features
Display	LED with 7 segments, 10 mm high, red 4-digit = Indication 9999	- Galvanic insulated 2 scaleable set points / hysteresis - Analog output - Min./ Max. memory
Accuracy	+/- 0,2%, +/- 1 digit temperature meter see specification	
Measuring time	Adjustable from 0.2 up to 10 sec.	
Dimension	B48 x H24 x T91 mm (T=101 mm, including plug in terminal)	
Assembly cut out	45,0 x 22,2 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 1.5 mm ²	
Working temperature	0 .. 60° C	

Range		24 VDC	24 VDC insulated	List prices €
DC voltage, current 10/50 V, 0-(4)-20mA			PVE 4.001.7782B	
Direct current (shunt)			PVE 4.002.7782B	
Resistance, potentiometer	<= 10 KOhm <= 100 KOhm <= 1 MOhm		PVE 4.506.7782B PVE 4.606.7782B PVE 4.706.7782B	
Thermocouple, L, J, K, (S, B, N)			PTE 4.40x.7782B PTE 4.40y.7782B	
Pt 100 2-wire	600 ° C		PTE 4.206.7782B	
Pt 100 3+2-wire	600 ° C		PTE 4.306.7782B	
KTY81	-50 .. +150° C 0 .. +300° C		PTE 4.501.7782B PTE 4.504.7782B	
Frequency metering	1 Hz – 500 KHz 0,001 Hz- 9999Hz		PFE 4.007.7782B PFL 4.007.7782B	

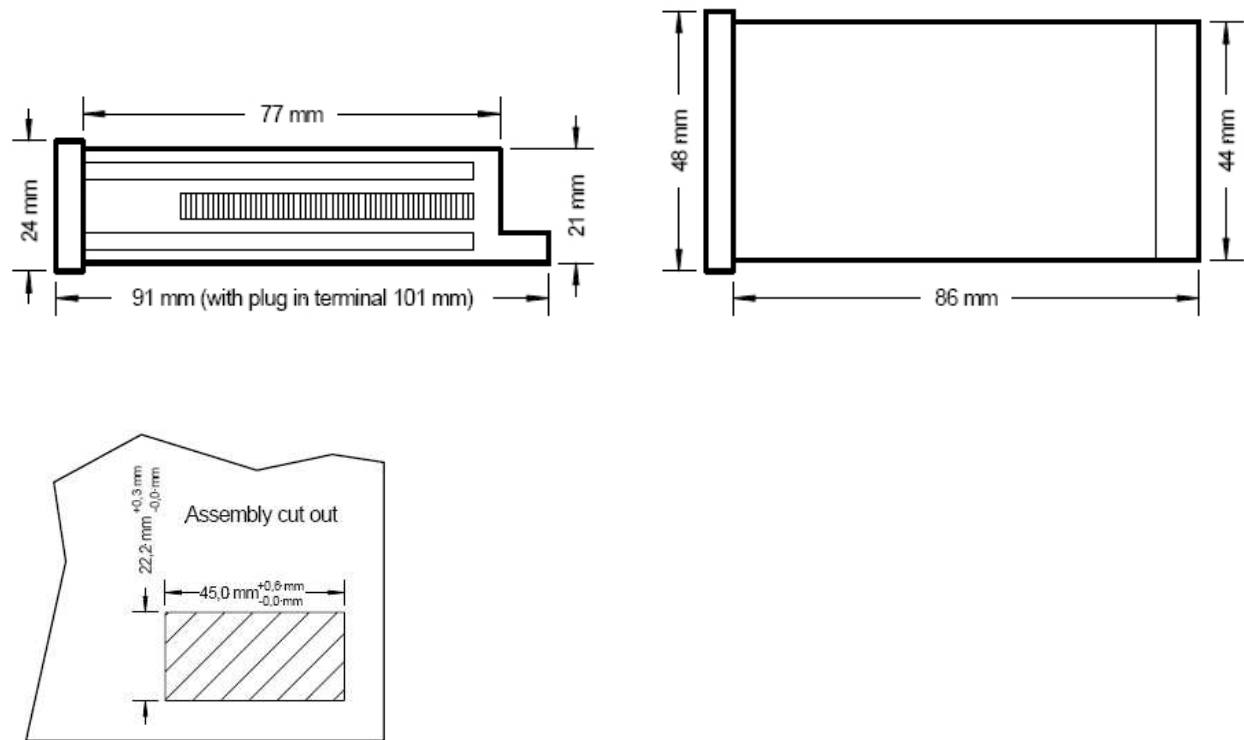
PVE 4.001	PVE 4.002	PVE 4.506/ 4.606/ 4.706
PTE.4.40x/ 4.440y Version x Typ L (FeCuNi - DIN) -100 up to +900°C Typ J (FeCuNi - americ.) -200 up to +1200°C Typ K (NiCrNi) -250 up to +1350°C	PTE 4.206	PTE 4.306

Series PVE4, PTE4, PFE4, PFL4



OPTIONS PVE, PTE, PFE,PFL	PVE 4.001... DC	PVE 4.002... Shunt	PVE4.006... Resistance	PTE 4.40x... Thermocouple	PTE 4.x06../4.50x... PT100, KTY81	PFE, PFL 4.007... Frequency	Extra price €
Green LED	X	X	X	X	X	X	
Foil keyboard with protection IP54 (plug in terminal)	X	X	X	X	X	X	
Foil keyboard with protection IP54 (plug in terminal)	X	X	X	X	X	X	
With analog output set points S1 and S2 are not available!							
Analog output 0-10VDC/12Bit	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω/12Bit	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω/12Bit	X	X	X	X	X	X	
Set points as open emitter	X	X	X	X	X	X	

Housing





Digital panel meter

48 x 48 mm

Series DV3, DT3

3 ½ Digits

Technical data		Features
Display	LED with 7 segments, 10 mm high, red	- Without set points - Analog output (option)
Accuracy	+/-0.1% of measuring value, +/-1 digit temperature meter see specification	
Measuring time	1 sec	
Dimension	B48 x H48 x T131 mm (T=147 mm, including plug in terminal)	
Assembly cut out	45.0 x 45.0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

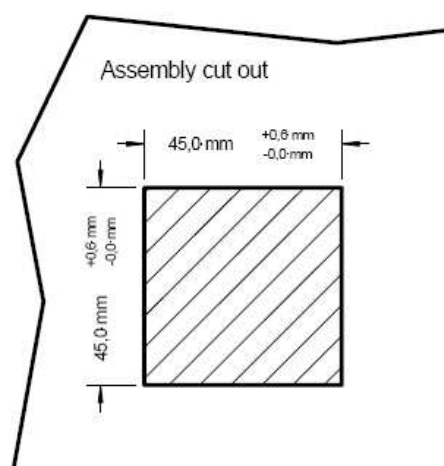
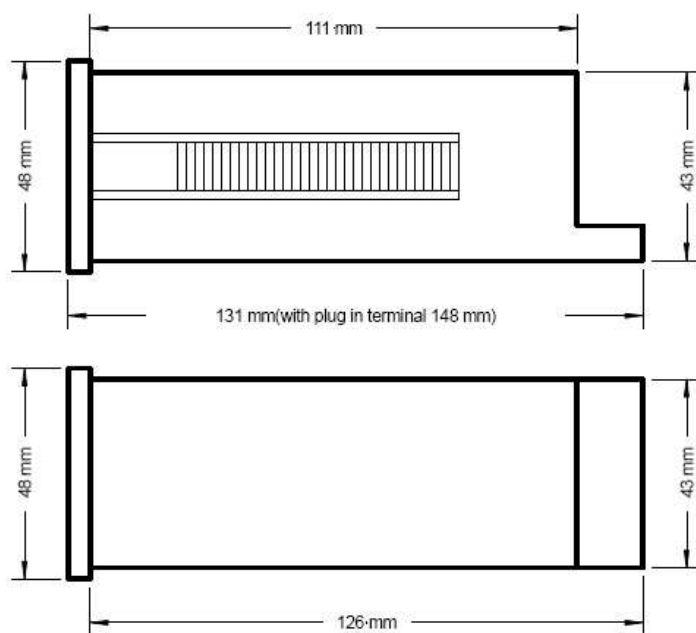
Range		230 VAC	24 VDC insulated	List prices €
DC voltage, current 10/50/200 V, 0-(4)-20mA		DV 3.001.850B	DV 3.001.870B	
Direct current (shunt)		DV 3.002.850B	DV 3.002.870B	
Alternating voltage, alternating current	Standard True effective RMS	DV 3.004.850B DV 3.104.850B	DV 3.004.870B DV 3.104.870B	
Resistance, potentiometer	<= 10 KOhm <= 100 KOhm <= 1 MOhm	DV 3.506.850B DV 3.606.850B DV 3.706.850B	DV 3.506.870B DV 3.606.870B DV 3.706.870B	
Thermocouple L, J, K		DT 3.40x.850B	DT 3.40x.870B	
Pt 100 2-wire	199,9 ° C 600 ° C	DT 3.202.850B DT 3.206.850B	DT 3.202.870B DT 3.206.870B	
Pt 100 2+3-wire	199,9 ° C 600 ° C	DT 3.302.850B DT 3.302.850B	DT 3.302.870B DT 3.302.870B	

DV 3.001	DV 3.002	DV 3.004/ 3.104
DV 3.506/ 3.606/ 3.706	DT 3.40x	DT 3.202/ 3.206/ 3.302/ 3.306

Series DV, DT

OPTIONS	DV 3 001... DC	DV 3 002... Shunt	DV 3 004... DC	DV 3 006... Resistance	DT 3 40x... Thermocouple	DT 3 x02.../3 x06... PT100 (2 +3 Wire)	Extra price €
Green LED	X	X	X	X	X	X	
Protection IP54	X	X	X	X	X	X	
Protection IP65	X	X		X			
Plug in terminal protection IP40	X	X	X	X		X	
Plug in terminal protection IP54	X	X	X	X		X	
Plug in terminal protection IP65	X	X		X			
Analog output 0-10VDC/2mA (supply voltage 230VAC)	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω (supply voltage 230VAC)	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω (supply voltage 230VAC)	X	X	X	X	X	X	
Analog output 0-10VDC/2mA (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	
Analog output with customer specified offset (S26)	X	X	X	X	X	X	
Analog output and Protection IP65	see series PVE						
Measuring range 1 A on demand			X				
Dimension strip selectable (max. 8 signs)	X	X	X	X	X	X	
Other power supplies on demand	X	X	X	X	X	X	
Set points	see series PVE						

Housing





Digital panel meter

72 x 36 mm

Series DV3, DT3

3 ½ Digits

Technical data		Features
Display	LED with 7 segments, 10 mm high, red	- Without set points - Analog output (option)
Accuracy	DC +/-0.1% of measuring value, +/-1 digit AC +/-0.5% of measuring value, +/-1 digit temperature meter see specification	
Measuring time	1 sec	
Dimension	B72 x H36 x T97 mm (T=115 mm, including plug in terminal)	
Assembly cut out	68.0 x 33.0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230/115 VAC	24 VDC	24 VDC insulated	List prices €		
DC voltage, current 10/50/200 V, 0-(4)-20mA	DV 3.001.610B	DV 3.001.630B	DV 3.001.670B			
Direct current (shunt)	DV 3.002.610B	DV 3.002.630B	DV 3.002.670B			
Alternating voltage, alternating current 2/20/100/400 V 5 A (1 A)	DV 3.004.610B		DV 3.004.670B			
Alternating voltage, alternating True effective RMS 2/20/100/400 V 5 A (1 A)	DV 3.104.610B		DV 3.104.670B			
Resistance, potentiometer	DV 3.506.610B DV 3.606.610B DV 3.706.610B	DV 3.506.630B DV 3.606.630B DV 3.706.630B	DV 3.506.670B DV 3.606.670B DV 3.706.670B			
Thermocouple L, J, K	DT 3.40x.610B		DT 3.40x.670B			
Pt 100 2-wire	DT 3.202.610B DT 3.206.610B		DT 3.202.670B DT 3.206.670B			
Pt 100 2+3-wire	DT 3.302.610B DT 3.306.610B		DT 3.302.670B DT 3.306.670B			

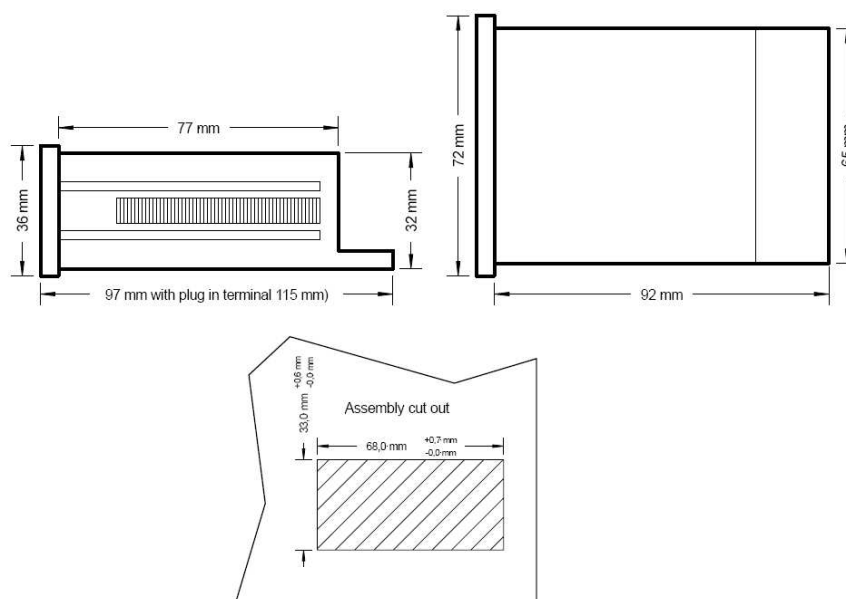
DV 3.001	DV 3.002	DV 3.004/ 3.104
DV 3.506/ 3.606/ 3.706	DT 3.40x	DT 3.202/ 3.206/ 3.302/ 3.306
	Typ L (FeCuNi - DIN) -50 up to +500°C Typ J (FeCuNi - americ.) -50 up to +500°C Typ K (NiCrNi) -100 up to +800°C	

Series DV3, DT3

OPTIONS	DV 3.001... DC	DV 3.002... Shunt	DV 3.004... DC	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 + 3 Wire)	Extra price €
Green LED	x	x	x	x	x	x	
Protection IP54	x	x	x	x	x	x	
Protection IP65 (*see following table)	x	x		x			
Plug in terminal protection IP40	x	x	x	x		x	
Plug in terminal protection IP54	x	x	x	x		x	
Plug in terminal protection IP65 (*see following table)	x	x		x			
Analog output 0-10VDC/2mA (supply 230/115V AC)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (supply 230/115V AC)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (supply 230/115V AC)	x	x	x	x	x	x	
Analog output 0-10VDC/2mA (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output with customer specified offset (S26)	x	x	x	x	x	x	
Analog output and Protection IP65	see series PVE						
Measuring range 0-1 mA (S10)	x						
Measuring range 1 A on demand (S108)			x				
Dimension strips are selectable (max. 7 signs)	x	x	x	x	x	x	
Other power supplies on demand	x	x	x	x	x	x	
Set points	see series PVE						

Settings ex works with protective system *IP65, adjustable on rear side*

Settings deviating from the standard settings must be indicated in the order description.	Standard	As desired	DV 3.001... DC	DV 3.002... Shunt	DV 3.004... DC	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 + 3 Wire)
Plus sign	active	inactive	x	x		x		
Blanking	no	yes	x	x		x		





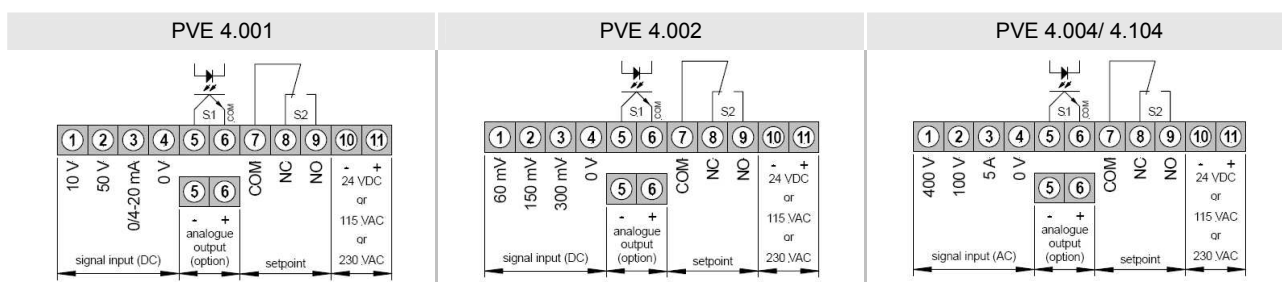
Digital panel meter with microprocessor based technology 4 digits

72 x 36 mm

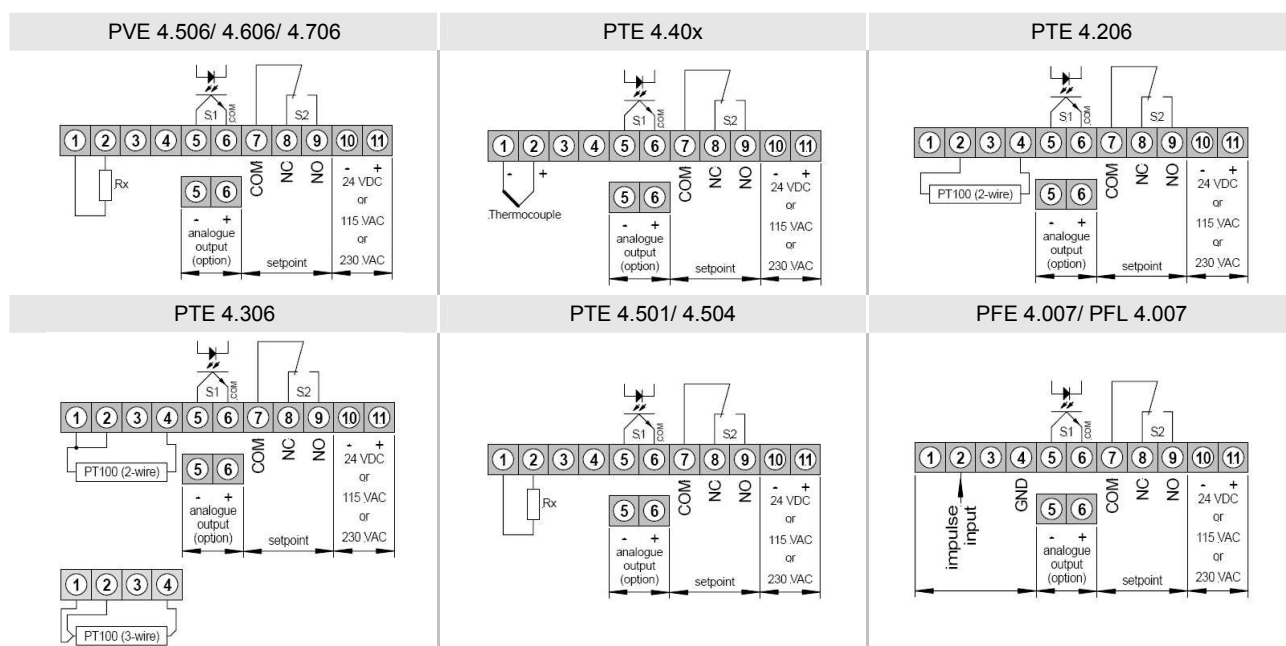
Series PVE4, PTE4, PFE4,
PFL4

Technical data		Features
Display	4 digits = 9999, 14 mm red LED	- Galvanic insulated 2 scaleable set points / hysteresis - Analog output - Min./ Max. memory
Accuracy	DC +/-0.2% of measuring value, +/-1 digit AC +/-0.5% of measuring value, +/-1 digit temperature meter see specification	
Measuring time	Adjustable from 0.2 up to 10 sec.	
Dimension	B72 x H36 x T97 mm (T=115 mm, including plug in terminal)	
Assembly cut out	68,0 x 33,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230 VAC	115 VAC	24 VDC insulated	List prices €		
DC voltage, current 10/50 V, 0-(4)-20mA	PVE 4.001.6522B	PVE 4.001.6422B	PVE 4.001.6722B			
Direct current (shunt) 60/150/300 mV	PVE 4.002.6522B	PVE 4.002.6422B	PVE 4.002.6722B			
Alternating voltage, alternating 100/400 V, 5 A	PVE 4.004.6522B	PVE 4.004.6422B	PVE 4.004.6722B			
Alternating voltage, alternating True effective RMS 100/400 V, 5 A	PVE 4.104.6522B	PVE 4.104.6422B	PVE 4.104.6722B			
Resistance, potentiometer ≤ 10 KOhm ≤ 100 KOhm ≤ 1 MOhm	PVE 4.506.6522B PVE 4.606.6522B PVE 4.706.6522B	PVE 4.506.6422B PVE 4.606.6422B PVE 4.706.6422B	PVE 4.506.6722B PVE 4.606.6722B PVE 4.706.6722B			
Thermocouple Type L (FeCuNi-DIN) -100.. + 900° C Type J (FeCuNi - US) -200.. +1200° C Type K (NiCrNi) -250.. +1350° C Type S (Pt10Rh-Pt -DIN) 0.. +1170° C Type B (Pt30Rh-Pt6Rh - DIN) 300.. +1200° C Type N (NiCrSi-NiSi - DIN) 0.. +1300° C	PTE 4.40L.6522B PTE 4.40J.6522B PTE 4.40K.6522B PTE 4.40S.6522B PTE 4.40B.6522B PTE 4.40N.6522B	PTE 4.40L.6422B PTE 4.40J.6422B PTE 4.40K.6422B PTE 4.40S.6422B PTE 4.40B.6422B PTE 4.40N.6422B	PTE 4.40L.6722B PTE 4.40J.6722B PTE 4.40K.6722B PTE 4.40S.6722B PTE 4.40B.6722B PTE 4.40N.6722B			
Pt 100 2-wire 600,0° C	PTE 4.206.6522B	PTE 4.206.6422B	PTE 4.206.6722B			
Pt 100 3+2-wire 600,0° C	PTE 4.306.6522B	PTE 4.306.6422B	PTE 4.306.6722B			
KTY81 -50 .. +150° C 0 .. +300° C	PTE 4.501.6522B PTE 4.504.6522B	PTE 4.501.6422B PTE 4.504.6422B	PTE 4.501.6722B PTE 4.504.6722B			
Frequency metering 1 Hz - 500 KHz 0,001 Hz - 9999 Hz	PFE 4.007.6522B PFL 4.007.6522B	PFE 4.007.6422B PFL 4.007.6422B	PFE 4.007.6722B PFL 4.007.6722B			



Series PVE4, PTE4, PFE4, PFL4



OPTIONS	PVE 4.001... DC	PVE 4.002... Shunt	PVE 4.004... DC	PVE 4.006... Resistance	PTE 4.40x... Thermocouple	PTE 4.40x.../4.50x... PT100, KTY81	PFE, PFL 4.307... Frequency	Extra price €
Green LED	x	x	x	x	x	x	x	
Protection IP54 at the front	x	x	x	x	x	x	x	
Protection IP65 at the front	x	x	x	x	x	x	x	
Plug in terminal with protection IP40	x	x	x	x		x	x	
Plug in terminal with protection IP54	x	x	x	x		x	x	
Plug in terminal with protection IP65	x	x	x	x		x	x	
With analog output there is no set point S1!								
Analog output 0-10VDC/12Bit (supply 230/115V AC)	x	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω/12Bit (supply 230/115V AC)	x	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω/12Bit (supply 230/115V AC)	x	x	x	x	x	x	x	
Analog output 0-10VDC/12Bit (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω/12Bit (supply 24V DC galv. insulated)	x	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω/12Bit (supply 24V DC galv. insulated)	x	x	x	x	x	x	x	
The analogue output is galv. insulated from the measuring input !								
Dimension strips selectable (max. 7 signs)	x	x	x	x	x	x	x	
Measuring range 1A on demand (S108)			x					
Other power supplies on demand	x	x	x	x	x	x	x	



Digital panel meter

96 x 24 mm

Series DV3, DT3

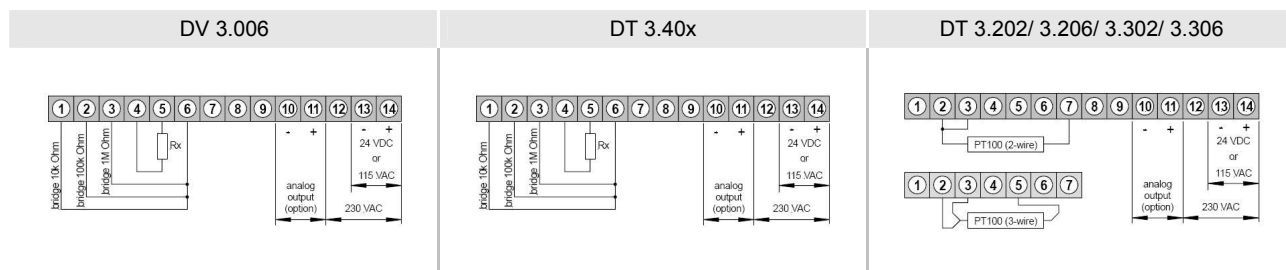
3 ½ Digits

Technical data		Features
Display	3 ½ digits = +/-1999, 14 mm red LED	- Without set points - Analog output (option) - Sensor supply (option)
Accuracy	DC +/-0.1% of measuring value, +/-1 digit AC +/-0.5% of measuring value, +/-1 digit temperature meter see specification	
Measuring time	0,25 sec	
Dimension	B96 x H24 x T131 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92.0 x 22.0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230/115 VAC	24 VDC	24 VDC insulated	List prices €		
DC voltage, current 10/50/200/600 V, 0-(4)-20, 200 mA	DV 3.001.310B	DV 3.001.330B	DV 3.001.370B			
Direct current (shunt) 60 mV, 150 mV, 300 mV, 1 V	DV 3.002.310B	DV 3.002.330B	DV 3.002.370B			
Alternating voltage, alternating current 2/20/100/400 V 1/5 A	DV 3.004.310B		DV 3.004.370B			
Alternating voltage, alternating True effective RMS 2/20/100/400 V 1/5 A	DV 3.104.310B		DV 3.104.370B			
Resistance, potentiometer 10 KOhm/ 100 KOhm/ 1 MOhm	DV 3.006.310B	DV 3.006.330B	DV 3.006.370B			
Thermocouple Type L (FeCuNi – DIN) -50.. +500° C Type J (FeCuNi – US) -50.. +500° C Type K (NiCrNi) -100.. +800° C	DT 3.40L.310B DT 3.40J.310B DT 3.40K.310B		DT 3.40L.370B DT 3.40J.370B DT 3.40K.370B			
Pt 100 2-wire 199,9° C 600 ° C	DT 3.202.310B DT 3.206.310B		DT 3.202.370B DT 3.206.370B			
Pt 100 3+2-wire 199,9° C 600 ° C	DT 3.302.310B DT 3.306.310B		DT 3.302.370B DT 3.306.370B			

DV 3.001	DV 3.002	DV 3.004/ 3.104

Series DV3, DT3



OPTIONS	DV 3.001... DC	DV 3.002... Shunt	DV 3.004... DC	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 + 3 Wire)	Extra price €
Green LED	X	X	X	X	X	X	
Protection IP54	X	X	X	X	X	X	
Protection IP65 (see following table)	X	X	X	X	X	X	
Plug in terminal with protection IP40	X	X	X	X		X	
Plug in terminal with protection IP54	X	X	X	X		X	
Plug in terminal with protection IP65 (see following table)	X	X	X	X		X	
Sensor supply 24VDC/20mA (supply 230/115V AC)	X						
Sensor supply 24VDC/50mA (supply 24V DC galv. not insulated)	X						
Sensor supply 10VDC/20mA (supply 230/115V AC und 24V DC galv. not insulated)	X						
Sensor supply 24VDC/50mA (supply voltage 24 VDC galv. insulated)	X						
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)	X						
<i>With supply voltage AC and DC (galvanically insulated) the sensor supply is galv. insulated from the measuring input</i>							
Analog output 0-10VDC/2mA (supply AC und 24V DC galv. not insulated)	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω (supply AC und 24V DC galv. not insulated)	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω (supply AC und 24V DC galv. not insulated)	X	X	X	X	X	X	
Analog output 0-10VDC/2mA (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	
Analog output with customer specified offset (S26)	X	X	X	X	X	X	
Measuring input 0-1mA (S10)	X						
Measuring range 1 A on demand (S108)			X				
Dimension strips selectable (max. 7 signs)	X	X	X	X	X	X	
Other power supplies on demand	X	X	X	X	X	X	
Set points	see series PVE						

Settings ex works with protective system IP65, adjustable on rear side

Settings deviating from the standard settings must be indicated in the order.	Standard	As desired	DV 3.001... DC	DV 3.002... Shunt	DV 3.004... DC	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 + 3 Wire)
Plus sign	active	inactive	X	X		X	X	X
Blanking	no	yes	X	X	X	X		
Measuring time	0,25sec.	1 sec.	X	X	X	X		
Decimal point	100,0	without	X	X	X	X		
		10,00	X	X	X	X		

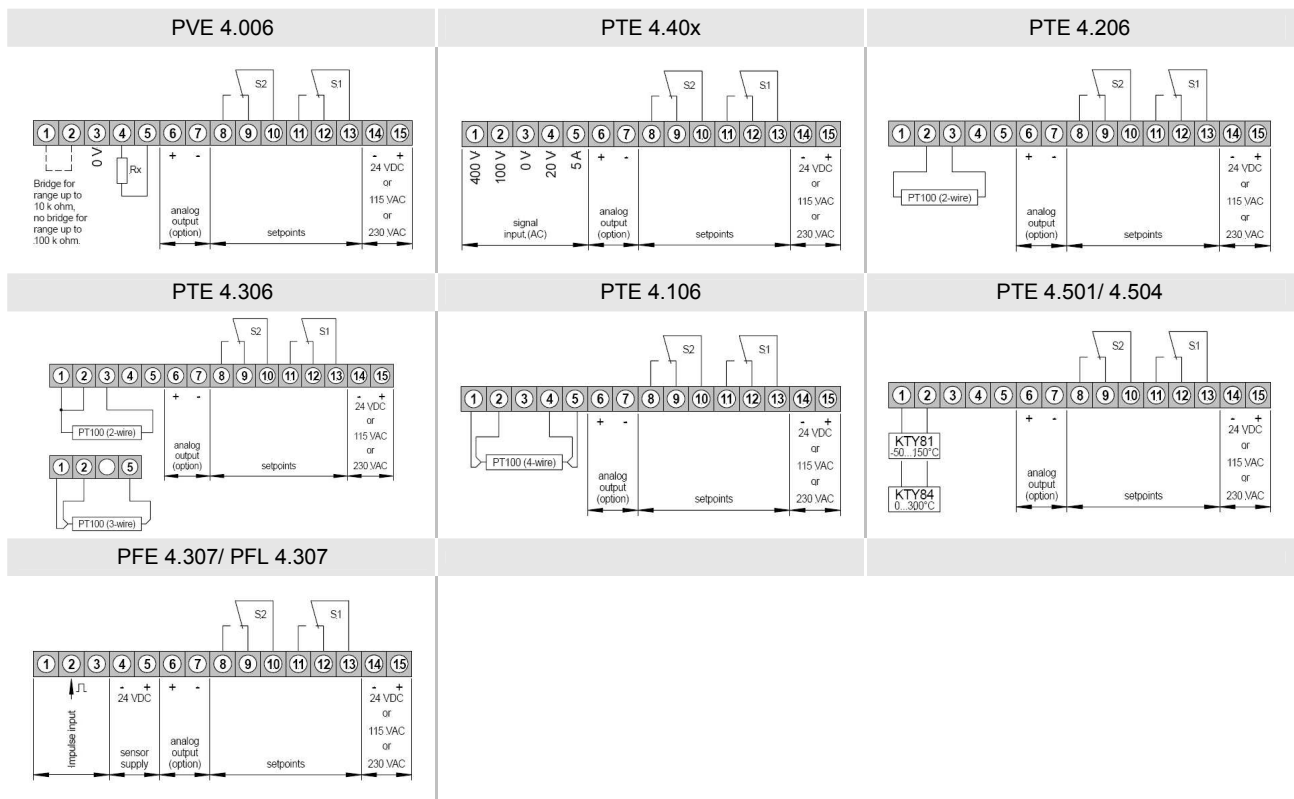


Technical data		Feature
Display	4 digits = 9999, 14 mm red LED	- Galvanically insulated 2 free scalable Set points / hysteresis - Optical set point indication - Analog output galvanically insulated - Sensor supply galvanically insulated - Min/max memory
Accuracy	DC +/-0.2% , +/-1 digit AC +/-0.5%, +/-1 digit temperature meter see specification	
Measuring time	Adjustable from 0.1 up to 10 sec.	
Dimension	B96 x H24 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92,0 x 22,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

The diagrams show the terminal block configurations for three different PVE models:

- PVE 4.001:** 15 pins. Pin 1: 10V signal input (DC). Pin 2: 0/4-20 mA. Pin 3: 0V. Pin 4: sensor supply (option). Pin 5: +. Pin 6: -. Pin 7: analog output (option). Pin 8: +. Pin 9: -. Pins 10-13: setpoints. Pin 14: 24 VDC or 115 VAC or 230 VAC. Pin 15: +.
- PVE 4.002:** 15 pins. Pin 1: 60 mV. Pin 2: 150 mV. Pin 3: 0 V. Pin 4: 300 mV. Pin 5: 1 V. Pin 6: +. Pin 7: -. Pins 10-13: setpoints. Pin 14: 24 VDC or 115 VAC or 230 VAC. Pin 15: +.
- PVE 4.004/ 4.104:** 15 pins. Pin 1: 400 V. Pin 2: 100 V. Pin 3: 0 V. Pin 4: 20 V. Pin 5: 5 A. Pin 6: +. Pin 7: -. Pins 10-13: setpoints. Pin 14: 24 VDC or 115 VAC or 230 VAC. Pin 15: +.

Series PVE4, PTE4, PFE4, PFL4



OPTIONS PVE, PTE, PFE, PFL	Extra price							
	PVE 4.001 ... DC	PVE 4.002 ... Shunt	PVE 4.004 ... DC	PVE 4.006 ... Resistance	PTE 4.40x ... Thermocouple	PTE 4.x06 .../4.50x ... PT100, KTY81	PFE, PFL 4.307 ... Frequency	€
Green LED	X	X	X	X	X	X	X	
Protection IP54 at the front	X	X	X	X	X	X	X	
Protection IP65 at the front	X	X	X	X	X	X	X	
Plug in terminal with protection IP40	X	X	X	X		X	X	
Plug in terminal with protection IP54	X	X	X	X		X	X	
Plug in terminal with protection IP65	X	X	X	X		X	X	
Sensor supply 24VDC/20mA (supply 230/115V AC)	X							
Sensor supply 10VDC/20mA (supply 230/115V AC)	X							
Sensor supply 24VDC/50mA (supply voltage 24 VDC galv. insulated)	X							
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)	X							
Sensor supply 10VDC/20mA (supply 230/115V AC)							X	
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)							X	
<i>The sensor supply is galv. insulated from the measuring input !</i>								
Analog output 0-10VDC/12Bit (supply 230/115V AC)	X	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω/12Bit (supply 230/115V AC)	X	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω/12Bit (supply 230/115V AC)	X	X	X	X	X	X	X	
Analog output 0-10VDC/12Bit (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω/12Bit (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω/12Bit (supply voltage 24 VDC galv. insulated)	X	X	X	X	X	X	X	
<i>The analog output is galv. insulated from the measuring input !</i>								
Measuring input 0-1mA (S10)	X							
Dimension strips selectable	X	X	X	X	X	X	X	
Measuring range 1A on demand (S108)			X					
Other power supplies on demand	X	X	X	X	X	X	X	



Digital panel meter

96 x 48 mm

Series DV3, DT3

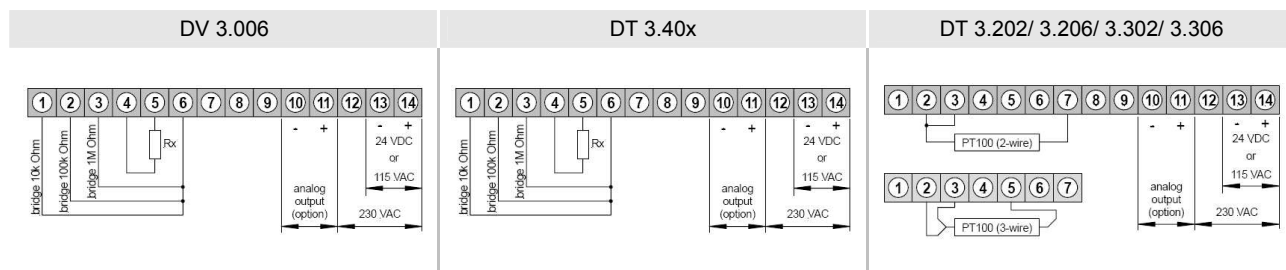
3 ½ Digits

Technical data		Features
Display	3 ½ digits = +/-1999, 14 mm red LED	- Without set points - Analog output (option) - Sensor supply (option)
Accuracy	DC +/-0.1% of measuring value, +/-1 digit AC +/-0.5% of measuring value, +/-1 digit temperature meter see specification	
Measuring time	0,25 sec	
Dimension	B96 x H48 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92.0 x 45.0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230/115 VAC	24 VDC	24 VDC insulated	List prices €		
DC voltage, current 10/50/200/600 V, 0-(4)-20, 200 mA	DV 3.001.110C	DV 3.001.130C	DV 3.001.170C			
Direct current (shunt) 60 mV, 150 mV, 300 mV, 1 V	DV 3.002.110C	DV 3.002.130C	DV 3.002.170C			
Alternating voltage, alternating current 2/20/100/400 V 1/5 A	DV 3.004.110C		DV 3.004.170C			
Alternating voltage, alternating True effective RMS 2/20/100/400 V 1/5 A	DV 3.104.110C		DV 3.104.170C			
Resistance, potentiometer 10 KOhm/ 100 KOhm/ 1 MOhm	DV 3.006.110C	DV 3.006.130C	DV 3.006.170C			
Thermocouple Type L (FeCuNi – DIN) -50.. +500° C Type J (FeCuNi – US) -50.. +500° C Type K (NiCrNi) -100.. +800° C	DT 3.40L.110C DT 3.40J.110C DT 3.40K.110C		DT 3.40L.170C DT 3.40J.170C DT 3.40K.170C			
Pt 100 2-wire 199,9° C 600 ° C	DT 3.202.110C DT 3.206.110C		DT 3.202.170C DT 3.206.170C			
Pt 100 3+2-wire 199,9° C 600 ° C	DT 3.302.110C DT 3.306.110C		DT 3.302.170C DT 3.306.170C			

DV 3.001	DV 3.002	DV 3.004/ 3.104
Terminal block diagram for DV 3.001: 14 terminals. 1-4: 10V, 50V, 200V, 600V (signal input DC). 5-6: 0/4-20 mA, 200 mA. 7: 0V. 8-9: sensor supply (option). 10-11: analog output (option). 12-14: 24 VDC or 115 VAC (230 VAC).	Terminal block diagram for DV 3.002: 14 terminals. 1-4: 10V, 50V, 200V, 600V (signal input DC). 5-6: 0/4-20 mA, 200 mA. 7: 0V. 8-9: sensor supply (option). 10-11: analog output (option). 12-14: 24 VDC or 115 VAC (230 VAC).	Terminal block diagram for DV 3.004/ 3.104: 14 terminals. 1-4: 2V, 20V, 100V, 400V (signal input AC). 5-6: 1A, 5A. 7: 0V. 8-9: sensor supply (option). 10-11: analog output (option). 12-14: 24 VDC or 115 VAC (230 VAC).

Series DV3, DT3



OPTIONS	DV 3.001... DC	DV 3.002... Shunt	DV 3.004... DC	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 + 3 Wire)	Extra price €
Green LED	x	x	x	x	x	x	
Protection IP54	x	x	x	x	x	x	
Protection IP65 (see following table)	x	x	x	x	x	x	
Plug in terminal with protection IP40	x	x	x	x		x	
Plug in terminal with protection IP54	x	x	x	x		x	
Plug in terminal with protection IP65 (see following table)	x	x	x	x		x	
Sensor supply 24VDC/50mA (supply 230/115VAC und 24VDC)	x						
Sensor supply 10VDC/20mA (supply 230/115VAC und 24VDC)	x						
Sensor supply 24VDC/50mA (supply voltage 24 VDC galv. insulated)	x						
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)	x						
Sensor supply 24VDC/100mA (supply 230/115VAC und 24VDC galv. insulated)	x						
Sensor supply 10VDC/120mA (supply 230/115VAC und 24VDC galv. insulated)	x						
With supply voltage AC and DC (galvanically insulated) the sensor supply is galv. insulated from the measuring input !							
Analog output 0-10VDC/2mA (supply 230/115VAC und 24VDC)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (supply 230/115VAC und 24VDC)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (supply 230/115VAC und 24VDC)	x	x	x	x	x	x	
Analog output 0-10VDC/2mA (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output with customer specified offset (S26)	x	x	x	x	x	x	
Measuring input 0-1mA (S10)	x						
Figures height 20 mm – adjustment by potentiometer at the rear side (S33)	x	x	x	x	x	x	
Dimension strips selectable	x	x	x	x	x	x	
Other power supplies on demand	x	x	x	x	x	x	
Set points	see series PVE						

Settings ex works with protective system IP65, adjustable on rear side

Settings deviating from the standard settings must be indicated in the order.	Standard	As desired	DV 3.001... DC	DV 3.002... Shunt	DV 3.004... DC	DV 3.006... Resistance	DT 3.40x... Thermocouple	DT 3.x02.../3.x06... PT100 (2 + 3 Wire)
Plus sign	active	inactive	x	x		x	x	x
Blanking	no	yes	x	x	x	x		
Measuring time	0,25sec.	1 sec.	x	x	x	x		



Digital panel meter

96 x 48 mm

Series DV4

4 ½ Digits

Technical data		Features
Display	4 ½ digits = +/-19999, 14 mm red LED	- Without set points - Sensor supply (option)
Accuracy	DC +/-0.1% of measuring value, +/-1 digit	
Measuring time	1 sec	
Dimension	B96 x H48 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92.0 x 45.0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230/115 VAC	24 VDC	24 VDC insulated	List prices €		
DC voltage, current 10/50/200/600 V, 0-(4)-20mA, 200 mA	DV 4.001.110C	DV 4.001.130C	DV 4.001.170C			

DV 4.001													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
10 V	50 V	200 V	600 V	0/4-20 mA	200 mA	0 V	-	+	-	+		24 VDC or 115 VAC	+
signal input (DC)						sensor supply (option)		analog output (option)		230 VAC			

OPTIONS	DV 4.001... DC	Extra price €
Green LED	x	
Protection IP54	x	
Protection IP65 (see following table)	x	
Plug in terminal with protection IP40	x	
Plug in terminal with protection IP54	x	
Plug in terminal with protection IP65 (see following table)	x	
Sensor supply 24VDC/50mA (supply 230/115V AC und 24V DC)	x	
Sensor supply 10VDC/20mA (supply 230/115V AC und 24V DC)	x	
Sensor supply 24VDC/50mA (supply voltage 24 VDC galv. insulated)	x	
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)	x	
Sensor supply 24VDC/100mA (supply 230/115V AC und 24V DC galv. insulated)	x	
Sensor supply 10VDC/120mA (supply 230/115V AC und 24V DC galv. insulated)	x	
With supply voltage AC and DC (galvanically insulated) the sensor supply is galv. insulated from the measuring input !		
Measuring input 0-1mA (1=Plus und 7= Minus) - S10	x	
Supply 24/48VAC	x	
Dimension strips selectable	x	
Other power supplies on demand	x	

Settings ex works with protective system IP65, adjustable on rear side

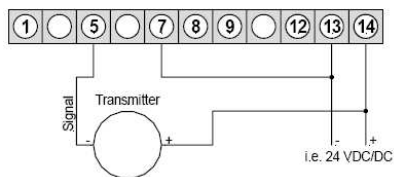
Series DV4

Settings deviating from the standard settings must be indicated in the order description.

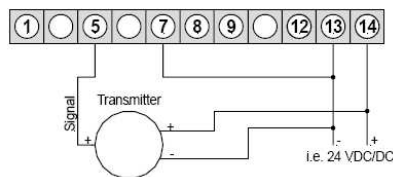
	Standard	As desired	DV 4.001... DC
Plus sign	active	inactive	x
Blanking	no	yes	x

DV intruments without sensor supply

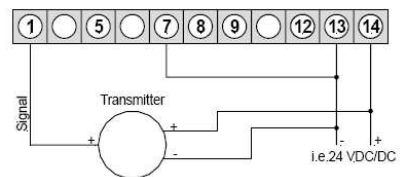
2-wire: 4-20 mA



3-wire: 0-20 mA
4-20 mA

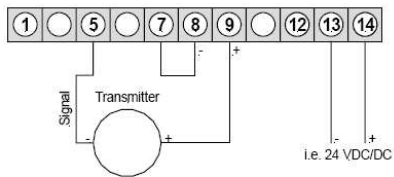


3-wire: 0-10 V / 0-5 V
0-1 V / 1-6 V

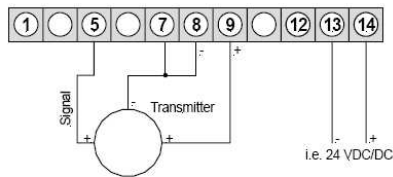


DV intruments with sensor supply

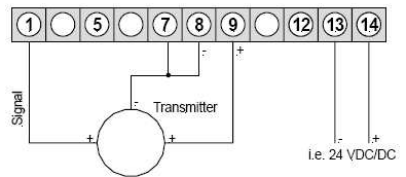
2-wire: 4-20 mA



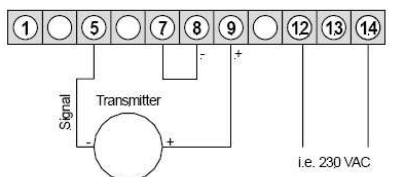
3-wire: 0-20 mA
4-20 mA



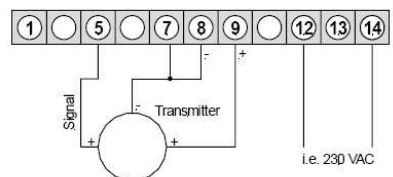
3-wire: 0-10 V / 0-5 V
0-1 V / 1-6 V



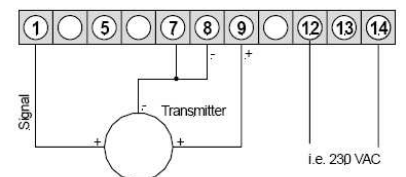
2-wire: 4-20 mA



3-wire: 0-20 mA
4-20 mA



3-wire: 0-10 V / 0-5 V
0-1 V / 1-6 V





Digital panel meter with microprocessor based technology 4 digits

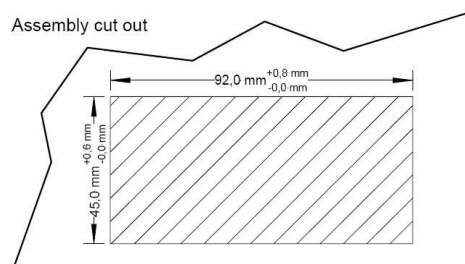
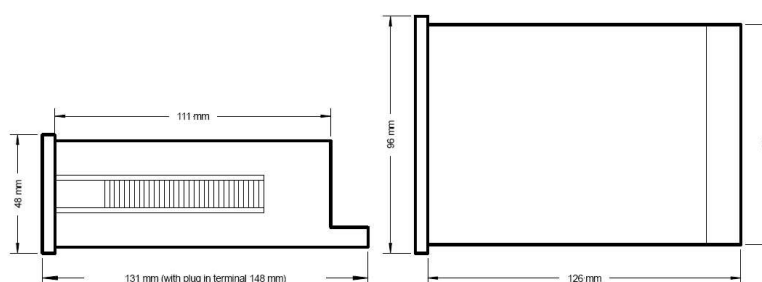
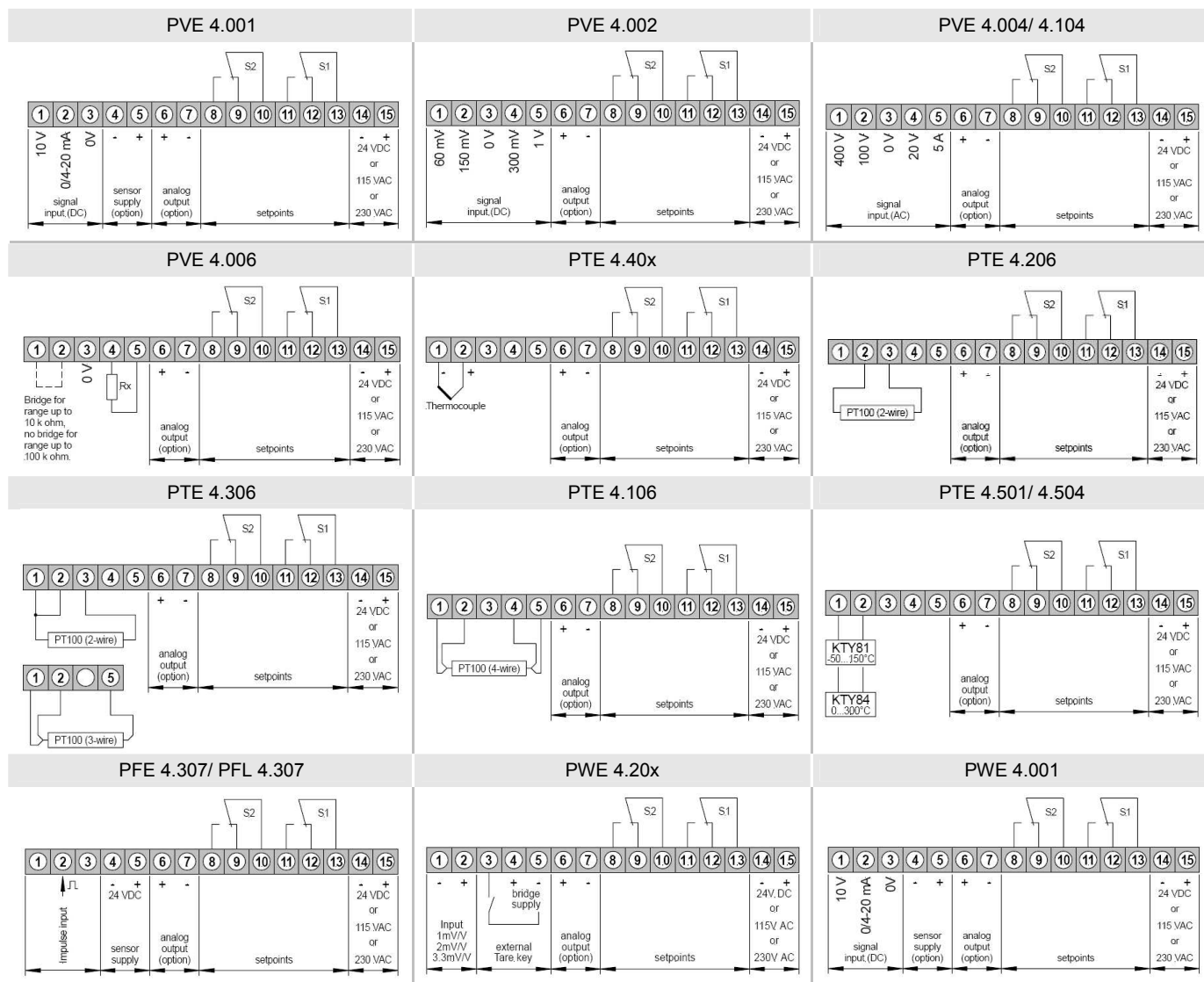
96 x 48 mm

Series PVE4, PTE4, PWE4, PFE4, PFL4

Technical data		Features
Display	4 digits = 9999, 14 mm red LED	- Galvanically insulated 2 free scalable set points / hysteresis - Optical set point indication - Analog output – galvanically insulated - Sensor supply – galvanically insulated - Min/max memory
Accuracy	DC +/-0.2% , +/-1 digit AC +/-0.5% , +/-1 digit temperature meter see specification	
Measuring time	Adjustable from 0.1 up to 10 sec.	
Dimension	B96 x H48 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92,0 x 45,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230 VAC	115 VAC	24 VDC insulated	List prices €		
Direct voltage, direct current 10 V, 0-(4)-20 mA	PVE 4.001.1522B	PVE 4.001.1422B	PVE 4.001.1722B			
Direct current (shunt) 60/150/300/1000 mV	PVE 4.002.1522B	PVE 4.002.1422B	PVE 4.002.1722B			
Alternating voltage, alternating 20/100/400 V, 5 A	PVE 4.004.1522B	PVE 4.004.1422B	PVE 4.004.1722B			
Alternating voltage, alternating True effective RMS 20/100/400 V, 5 A	PVE 4.104.1522B	PVE 4.104.1422B	PVE 4.104.1722B			
Resistance, potentiometer 10 KOhm / 100 KOhm	PVE 4.006.1522B	PVE 4.006.1422B	PVE 4.006.1722B			
Thermocouple Type L (FeCuNi-DIN) -100.. + 900° C Type J (FeCuNi - US) -200.. +1200° C Type K (NiCrNi) -250.. +1350° C Type S (Pt10Rh-Pt -DIN) 0.. +1170° C Type B (Pt30Rh-Pt6Rh - DIN) 300.. +1200° C Type N (NiCrSi-NiSi - DIN) 0.. +1300° C	PTE 4.40L.1522B PTE 4.40J.1522B PTE 4.40K.1522B PTE 4.40S.1522B PTE 4.40B.1522B PTE 4.40N.1522B	PTE 4.40L.1422B PTE 4.40J.1422B PTE 4.40K.1422B PTE 4.40S.1422B PTE 4.40B.1422B PTE 4.40N.1422B	PTE 4.40L.1722B PTE 4.40J.1722B PTE 4.40K.1722B PTE 4.40S.1722B PTE 4.40B.1722B PTE 4.40N.1722B			
Pt 100 2-wire 600,0° C	PTE 4.206.1522B	PTE 4.206.1422B	PTE 4.206.1722B			
Pt 100 3+2-wire 600,0° C	PTE 4.306.1522B	PTE 4.306.1422B	PTE 4.306.1722B			
Pt 100 4-wire 600,0° C	PTE 4.106.1522B	PTE 4.106.1422B	PTE 4.106.1722B			
KTY81 -50 .. +150° C 0 .. +300° C	PTE 4.501.1522B PTE 4.504.1522B	PTE 4.501.1422B PTE 4.504.1422B	PTE 4.501.1722B PTE 4.504.1722B			
Frequency metering 1 Hz - 500 KHz 0,001 Hz - 9999 Hz	PFE 4.307.1522B PFL 4.307.1522B	PFE 4.307.1422B PFL 4.307.1422B	PFE 4.307.1722B PFL 4.307.1722B			
Weighing technology - Amplifier with tare function (strain gauge) 1 mV/V, 2 mV/V, 3,3 mV/V	PWE 4.20x.1592B	PWE 4.20x.1492B	PWE 4.20x.1792B			
Direct voltage, direct current, with tare function 10 V/ 0-4-20 mA	PWE 4.001.1522B	PWE 4.001.1422B	PWE 4.001.1722B			

Series PVE4, PTE4, PFE4, PFL4, PWE4



Series PVE4, PTE4, PFE4, PFL4, PWE4

OPTIONS PVE, PTE	PVE 4.001... DC	PVE 4.002... Shunt	PVE 4.004... DC	PVE 4.006... Resistance	PTE 4.40x... Thermocouple	PTE 4.x06.../4.50x... PT100, KTY81	Extra price €
Green LED	x	x	x	x	x	x	
Protection IP54 at the front	x	x	x	x	x	x	
Protection IP65 at the front	x	x	x	x	x	x	
Plug in terminal with protection IP40	x	x	x	x		x	
Plug in terminal with protection IP54	x	x	x	x		x	
Plug in terminal with protection IP65	x	x	x	x		x	
Sensor supply 24VDC/50mA (supply 230/115VAC)	x						
Sensor supply 10VDC/20mA (supply 230/115VAC)	x						
Sensor supply 24VDC/50mA (supply voltage 24 VDC galv. insulated)	x						
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)	x						
<i>The sensor supply is galv. insulated from the measuring input !</i>							
Analog output 0-10VDC/12 Bit (supply 230/115VAC)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω/12 Bit (supply 230/115VAC)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω/12 Bit (supply 230/115VAC)	x	x	x	x	x	x	
Analog output 0-10VDC/12Bit (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω/12 Bit (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω/12 Bit (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
<i>The analog output is galv. insulated from the measuring input !</i>							
Measuring input 0-1mA (S191)	x						
Measuring range 1A on demand (S108)			x				
Dimension strips selectable	x	x	x	x	x	x	
Other power supplies on demand	x	x	x	x	x	x	
Base mounted housing with character height of 25 mm (Dimension 170 mm x 130 mm)	x	x	x	x	x	x	GADE53
Fastening set for base mounted housing GADE53 (1 angle, case throats, screws)	x	x	x	x	x	x	GH008-ZA01

OPTIONS PFE, PFL	PFE 4.307... Frequency	PFL 4.307... Frequency	PWE 4.20x... DMS amplifier	PWE 4.001... with Tara function	PWE 4.301... Tara and ext key	PWE 4.20x... DMS amplifier	Extra price
Green LED	x	x	x	x	x	x	
Protection IP54 at the front	x	x		x	x		
Protection IP65 at the front	x	x		x	x		
Plug in terminal with protection IP40	x	x		x	x		
Plug in terminal with protection IP54	x	x		x	x		
Plug in terminal with protection IP65	x	x	x	x	x	x	
Sensor supply 24VDC/50mA (supply 230/115VAC)				x			
Sensor supply 10VDC/20mA (supply 230/115VAC)	x	x		x			
Sensor supply 10VDC/20mA (supply 230/115VAC)	x	x			x		
Sensor supply 24VDC/50mA (supply voltage 24 VDC galv. insulated)				x			
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)	x	x		x			
Sensor supply 10VDC/20mA (supply voltage 24 VDC galv. insulated)	x	x			x		
<i>The sensor supply is galv. insulated from the measuring input !</i>							
Analog output 0-10VDC/12Bit (supply 230/115VAC)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (12Bit) - (supply 230/115VAC)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (12Bit) - (supply 230/115VAC)	x	x	x	x	x	x	
Analog output 0-10VDC/12Bit (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω/12Bit (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω/12Bit (supply voltage 24 VDC galv. insulated)	x	x	x	x	x	x	
<i>The analog output is galv. insulated from the measuring input !</i>							
TTL input	x	x					
Other power supplies on demand	x	x	x	x	x	x	
Dimension strips selectable	x	x	x	x	x	x	



Digital panel meter with microprocessor based technology 4 digits

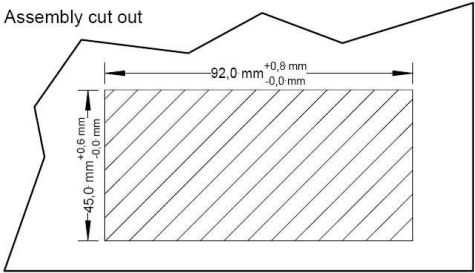
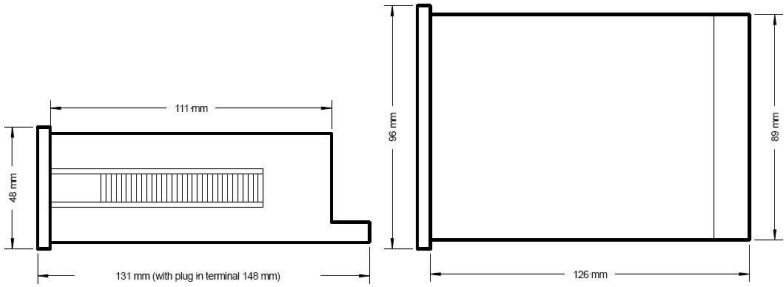
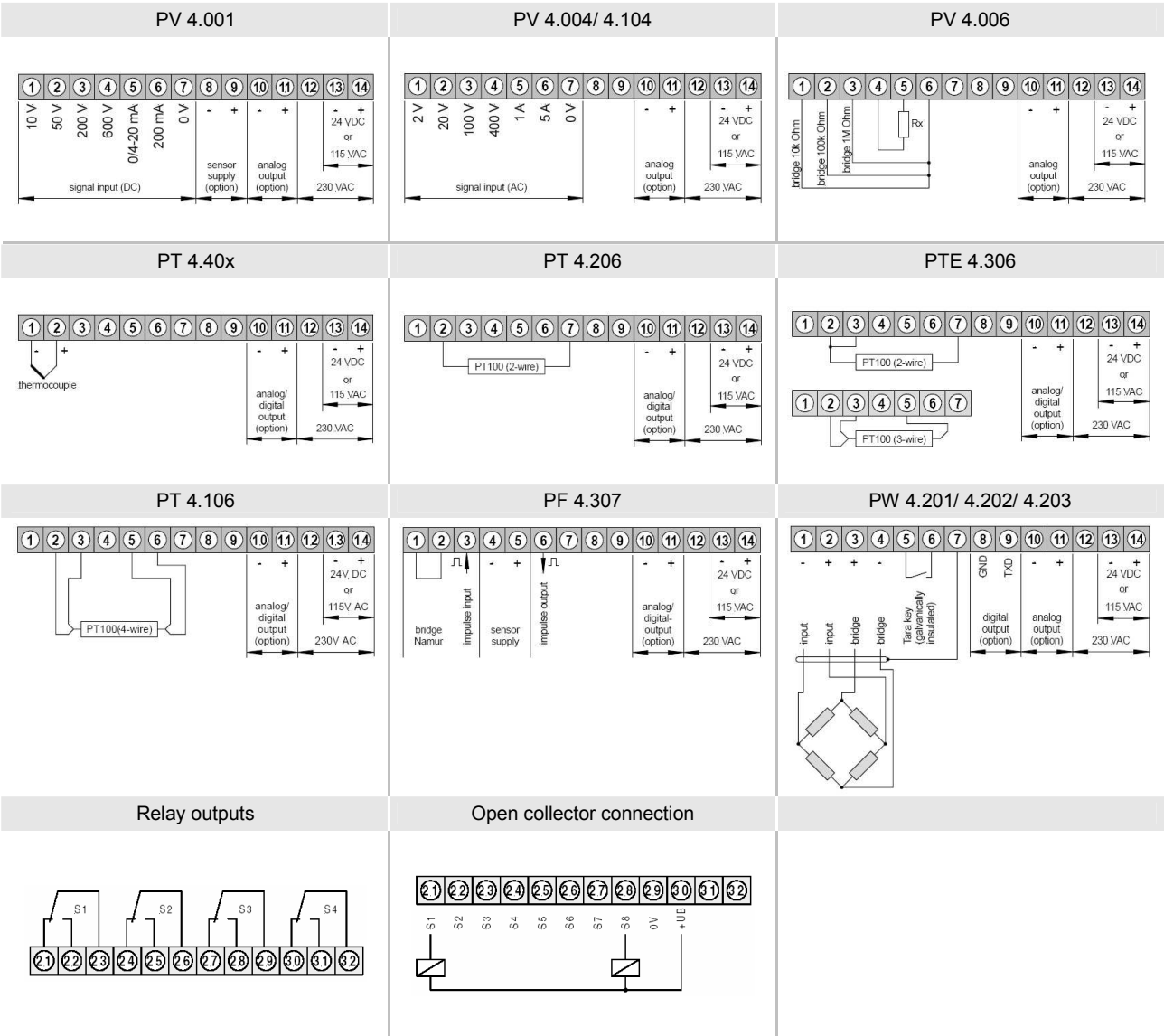
96 x 48 mm

Series PV, PT, PF, PW

Technical data		Features
Display	4½ digits = 19999, 14 mm red LED	- Galvanically insulated 8 free scalable set points / hysteresis - Optical set point indication - Analog output – galvanically insulated - Sensor supply – galvanically insulated - Interface - Min/max memory
Accuracy	DC +/-0.1% , +/-1 digit AC +/-0.5% , +/-1 digit temperature meter see specification	
Measuring time	Adjustable from 0.1 up to 10 sec.	
Dimension	B96 x H48 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92,0 x 45,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230 VAC	24 VDC	24 VDC insulated	List prices €		
Direct voltage, direct current 10/50/200/600 V, 0-(4)-20mA, 200 mA	PV 4.001.112B	PV 4.001.132B	PV 4.001.172B			
Alternating voltage, current 20/100/400 V, 5 A	PV 4.004.112B		PV 4.004.172B			
Alternating voltage, current True effective RMS 20/100/400 V, 5 A	PV 4.104.112B		PV 4.104.172B			
Resistance, potentiometer 10/100 KOhm, 1 MOhm	PV 4.006.112B	PV 4.006.132B	PV 4.006.172B			
Thermocouple Typ L (FeCuNi-DIN) -100.. + 900° C Typ J (FeCuNi - US) -200.. +1200° C Typ K (NiCrNi) -250.. +1350° C Typ S (Pt10Rh-Pt -DIN) -50.. +1170° C Typ N (NiCrSi-NiSi - DIN) -250.. +1300° C	PT 4.40L.112B PT 4.40J.112B PT 4.40K.112B PT 4.40S.112B PT 4.40N.112B		PT 4.40L.172B PT 4.40J.172B PT 4.40K.172B PT 4.40S.172B PT 4.40N.172B			
Pt 100 2-wire 600,0° C	PT 4.206.112B		PT 4.206.172B			
Pt 100 3+2-wire 600,0° C	PT 4.306.112B		PT 4.306.172B			
Pt 100 4-wire 600,0° C	PT 4.106.112B		PT 4.106.172B			
Frequency metering	PF 4.307.112B	PF 4.307.1422B	PF 4.307.172B			
Weighing technology - Amplifier with tare function (strain gauge) 1 mV/V 2 mV/V 3,3 mV/V	PW 4.201.112B PW 4.202.112B PW 4.203.112B		PW 4.201.172B PW 4.202.172B PW 4.203.172B			

Series PV, PT, PF, PW



Series PV, PT, PF, PW

OPTIONS	PV 4.001... DC	PV 4.004... DC	PV 4.006... Resistance	PT 4.40x... Thermocouple	PT 4.206... PT100(2,3,4 Wire)	PF 4.307... Frequency	PW 4.20x... DMS	Extra price €
Green LED	x	x	x	x	x	x	x	
Handling behind Front (IP40)	x	x	x	x	x	x	x	
Handling behind Front (IP54)	x	x	x	x	x	x	x	
Foil keyboard with protection IP54	x	x	x	x	x	x	x	
Foil keyboard with protection IP65	x	x	x	x	x	x	x	
Plug in terminal with protection IP40 (Handling behind Front)	x	x	x		x	x	x	
Plug in terminal with protection IP54 (Handling behind Front)	x	x	x		x	x	x	
Plug in terminal with protection IP40 und Foil keyboard	x	x	x		x	x	x	
Plug in terminal with protection IP54 und Foil keyboard	x	x	x		x	x	x	
Plug in terminal with protection IP65 und Foil keyboard	x	x	x		x	x	x	
Sensor supply 24VDC/50mA (supply 230/115V AC und 24V DC)	x					x		
Sensor supply 10VDC/20mA (supply 230/115V AC und 24V DC)	x					x		
Sensor supply 5VDC/50mA (supply 230/115V AC)							x	
Sensor supply 24VDC/50mA (supply 24V DC galv. insulated)	x					x		
Sensor supply 10VDC/20mA (supply 24V DC galv. insulated)	x					x		
Sensor supply 24VDC/100mA - maximal 3 Set points (supply 230/115V AC und 24V DC galv. insulated)	x					x		
Sensor supply 10VDC/120mA - maximal 3 Set points (supply 230/115V AC und 24V DC galv. insulated)	x					x	x	
<i>With supply voltage AC and DC (galv. insulated) the sensor supply is galv. insulated from the measuring input.</i>								
Analog output 0-10VDC/12Bit (supply 230/115V AC und 24VDC)	x	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (supply 230/115V AC und 24VDC)	x	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (supply 230/115V AC und 24VDC)	x	x	x	x	x	x	x	
Analog output 0-10VDC (12Bit) (supply 24V DC galv. insulated)	x	x	x	x	x	x	x	
Analog output 0-20mA/Load 500Ω (supply 24V DC galv. insulated)	x	x	x	x	x	x	x	
Analog output 4-20mA/Load 500Ω (supply 24V DC galv. insulated)	x	x	x	x	x	x	x	
Digital output RS422 - (96,N,8,1)	x	x	x	x	x	x	x	
Digital output RS232 - (96,N,8,1)	x	x	x	x	x	x	x	
1 Relay output	x	x	x	x	x	x	x	
2 Relay output	x	x	x	x	x	x	x	
4 Relay output	x	x	x	x	x	x	x	
8 open collector outputs	x	x	x	x	x	x	x	
TTL Input (S49)						x		
Measuring input 0-1mA (1= Plus and 7 = Minus) - S10	x							
Hold function via connection 3+4 (activation via „0“ key) - S42	x							
Min/max memory permanent/external reset (S72)	x							
20 points linearization (S83)	x							
Reciprocal indication on demand	x							
Other power supplies on demand	x	x	x	x	x	x	x	
Dimension strips selectable	x	x	x	x	x	x	x	



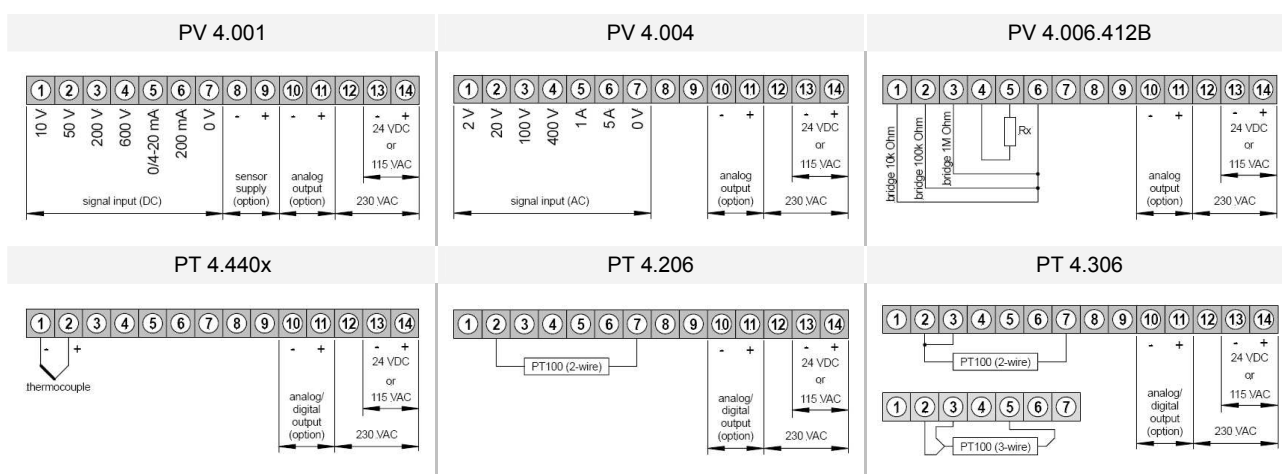
Digital panel meter with microprocessor based technology 4 digits

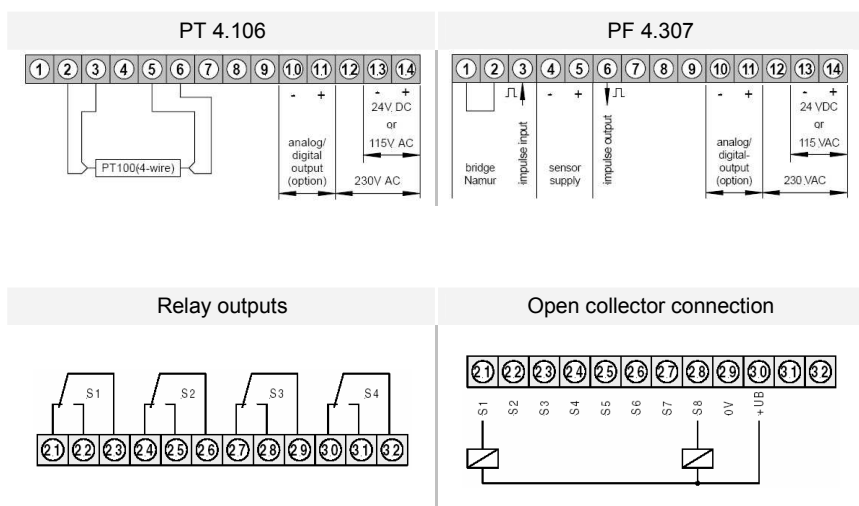
144 x 72 mm

Series PV, PT, PF

Technical data		Features
Display	4½ digits = 19999, 20 mm red LED	- Galvanically insulated 8 free scalable set points/hysteresis - Optical set point indication - Analog output – galvanically insulated - Sensor supply – galvanically insulated - Interface - Min/max memory
Accuracy	DC +/-0.1% , +/-1 digit AC +/-0.5%, +/-1 digit temperature meter see specification	
Measuring time	Adjustable from 0.1 up to 10 sec.	
Dimension	B144 x H72 x T135 mm (T=148 mm, including plug in terminal)	
Assembly cut out	138,0 x 68,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230/115 VAC	24 VDC	24 VDC insulated	List prices €		
Direct voltage, direct current 10/50/200/600 V, 0-(4)-20, 200 mA	PV 4.001.412B	PV 4.001.432B	PV 4.001.472 B			
Alternating voltage, current 20/100/400 V, 5 A	PV 4.004.412B		PV 4.004.472 B			
Alternating voltage, current True effective RMS 20/100/400 V, 5 A	PV 4.104.412B		PV 4.104.472B			
Resistance, potentiometer	PV 4.006.412B	PV 4.006.432 B	PV 4.006.472B			
Thermocouple L, J, K, S, N	PT 4.40x.412B		PT 4.40x.472B			
Pt 100 2-wire 600° C	PT 4.206.412B		PT 4.206.472B			
Pt 100 3+2-wire 600° C	PT 4.306.412 B		PT 4.306.472B			
Pt 100 4 wire 600° C	PT 4.106.412 B		PT 4.106.472 B			
Frequency metering	PF 4.307.412 B	PF 4.307.432 B	PF 4.307.472 B			





OPTIONS	PV 4.001....	PV 4.004....	PV 4.006....	PT 4.40x....	PT 4.206....	PF 4.307...	PW 4.20x...	Extra price
	DC	DC	Resistance	Thermocouple	PT100(2,3,4 Wire)	Frequency	DMS	Euro
Green LED	X	X	X	X	X	X	X	
Handling behind Front (IP40)	X	X	X	X	X	X	X	
Foil keyboard with protection IP65	X	X	X	X	X	X	X	
Plug in terminal with protection IP40 (Handling behind Front)	X	X	X			X	X	
Plug in terminal with protection IP40 und Foil keyboard	X	X	X			X	X	
Plug in terminal with protection IP65 und Foil keyboard	X	X	X			X	X	
Sensor supply 24VDC/50mA (supply 230/115VAC und 24VDC)	X					X		
Sensor supply 10VDC/20mA (supply 230/115VAC und 24VDC)	X					X		
Sensor supply 5VDC (supply 230/115VAC)							X	
Sensor supply 24VDC/50mA (supply 24V DC galv. insulated)	X					X		
Sensor supply 10VDC/20mA (supply 24V DC galv. insulated)	X					X		
Sensor supply 24VDC/100mA - maximal 3 Set points (supply 230/115VAC und 24VDC galv. insulated)	X					X		
Sensor supply 10VDC/120mA - maximal 3 Set points (supply 230/115VAC und 24VDC galv. insulated)	X					X	X	
<i>With supply voltage AC and DC (galv. insulated) the sensor supply is galv. insulated from the measuring input</i>								
Analog output 0-10VDC/12Bit (supply 230/115VAC und 24VDC)	X	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω (supply 230/115VAC und 24VDC)	X	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω (supply 230/115VAC und 24VDC)	X	X	X	X	X	X	X	
Analog output 0-10VDC/12Bit (supply 24V DC galv. insulated)	X	X	X	X	X	X	X	
Analog output 0-20mA/Load 500Ω (supply 24V DC galv. insulated)	X	X	X	X	X	X	X	
Analog output 4-20mA/Load 500Ω (supply 24V DC galv. insulated)	X	X	X	X	X	X	X	
Digital output RS422 - (96,N,8,1)	X	X	X	X	X	X	X	
Digital output RS232 - (96,N,8,1)	X	X	X	X	X	X	X	
1 relay output	X	X	X	X	X	X	X	
2 relay output	X	X	X	X	X	X	X	
4 relay output	X	X	X	X	X	X	X	
8 open collector outputs	X	X	X	X	X	X	X	
Dimension per character	X	X	X	X	X	X	X	
TTL input on demand (S49)						X		
Measuring input 0-1mA (1= Plus und 7 = Minus) - S10	X							
Hold function via connection 3+4 (activation via „0“ key) - S42	X							
Min/max memory permanent/external reset (S72)	X							
20 points linearization (S83)	X							
Reciprocal indication on demand	X							
Other voltage supplies on demand	X	X	X	X	X	X	X	



Large indicator panel meter

498 x 148 mm

4 Digits

Series GAD, GBD

Technical data		Features
Display	4 digits = 9999, 100 mm red LED	• Legible 25 up to 500 m (DIN 1450) • Protection IP65 • Measuring input galvanic insulated • 2 free scalable set points / hysteresis • Analog output galvanic insulated • Sensor supply galvanic insulated • Settings via keyboard or interface • RS232 / RS485 interface
Accuracy	DC +/-0.1%, +/-1 digit Pt 100 +/-0.5%, +/-3 digit	
Measuring time	Adjustable from 0.1 up to 10 sec.	
Dimension	B498 x H148 x T82 mm	
Assembly cut out	492,0 x 142,0 mm	
Protective system	Front IP65, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range	230 VAC	24 VDC	24 VDC insulated	List prices €		
Base mount housing DC voltage, current 10 V, 0-(4)-20mA	GAD42.0001. 510RD		GAD42.0001. 710RD			
Base mount housing Pt 100 200,0° C	GAD42.0102. 510RD		GBD42.0102. 710RD			
Panel instruments DC voltage, current 10 V, 0-(4)-20mA	GBD42.0001. 510RD		GBD42.0001. 710RD			
Panel instruments Pt 100 200,0° C	GBD42.0102. 510RD		GBD42.0102. 710RD			

Measuring input	Analog output	Set points
RS 232 Interface	Pt 100 2-wire	Pt 100 3-wire
Base mount housing GAD	Panel instruments GBD	Double Indicator

OPTIONS GAD, GBD		Extra price €
Display		
1 additional digit 57 mm (max. 8 digits)		
1 additional digit 100 mm (max. 6 digits)		
Green LED (each digit)		
Yellow LED (each digit)		
Foil keyboard		
Sensor supply <i>(The sensor supply is galv. insulated from the measuring input!)</i>		
Sensor supply 24VDC/50mA		
Sensor supply 10VDC/50mA		
Other Sensor supplies on request		
Analog output <i>(The analog output is galv. insulated from the measuring input!)</i>		
0-10VDC/12Bit		
0-20mA/Load 500Ω/12Bit		
4-20mA/Load 500Ω/12Bit		
Interface <i>(The interface RS485 und CANopen is galv. insulated from the measuring input!)</i>		
RS232 without galv. insulation		
RS485 without galv. insulation		
RS485 (galv. insulated)		
CANopen, DSP-404		
Relay		
2 relay outputs		
Other power supplies on demand		
Fixings		
Mounting set GAD	GH008-ZA01	
Mounting set GBD	GH008-ZB01	
Mounting set for double indicators		
Plug connection for signals	KL086	
Plug connection for supply	KL087	



Bargraph vertical or horizontal

48 x 24 mm

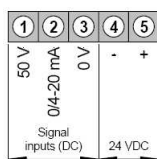
Series BVO1, BHO1

10 digits

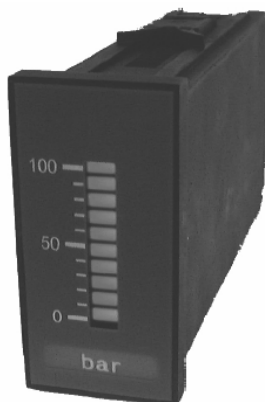
Technical data		Features
Display	Bargraph indication 10 digits red / optionally green	Without set points
Measuring time	1 sec	
Dimension	48 x 24 x 100 mm, including plug in terminal	
Assembly cut out	45,0 x 22,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 1.5 mm ²	
Working temperature	0 .. 60° C	

Range		24 VDC	24 VDC insulated	List prices €
Direct voltage, current 50 V, 0-(4)-20mA	vertical horizontal		BVO 1.001.776B BHO 1.001.776B	

Direct voltage, current



OPTIONS	BVO, BHO, ... DC	Extra price €
Green LED	x	
Plug in terminal with protection IP40 (standard)	x	
Plug in terminal with protection IP54 at the front (standard plug in terminal)	x	
Plug in terminal with protection IP65 (standard)	x	
Other inputs on demand	x	
Other power supplies on demand	x	
Other dimensions on demand	x	





Bargraph vertical or horizontal

72 x 24 mm

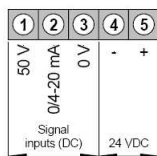
Series BVO2, BHO2

20 digits

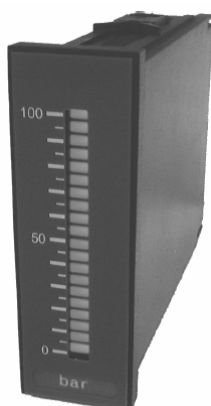
Technical data		Features
Display	Bargraph indication 20 digits red / optionally green	Without set points
Measuring time	1 sec	
Dimension	72 x 24 x 100 mm, including plug in terminal	
Assembly cut out	68,0 x 22,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 1.5 mm ²	
Working temperature	0 .. 60° C	

Range		24 VDC	24 VDC insulated	List prices €
Direct voltage, current 50 V, 0-(4)-20mA	vertical horizontal		BVO 2.001.576B BHO 2.001.576B	

Direct voltage, current



OPTIONS	BVO, BHO... DC	Extra price €
Green LED	x	
Plug in terminal with protection IP40 (standard)	x	
Plug in terminal with protection IP54 at the front (standard plug in terminal)	x	
Plug in terminal with protection IP65 (standard)	x	
Other inputs on demand	x	
Other power supplies on demand	x	
Other dimensions on demand	x	





Bargraph vertical or horizontal

96 x 24 mm

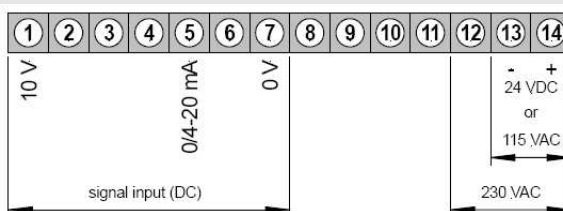
Series BVO3, BHO3

30 digits

Technical data		Features
Display	Bargraph indication 30 digits red / optionally green	Without set points
Measuring time	1 sec	
Dimension	B96 x H24 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92,0 x 22,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range		230/115 VAC	24 VDC insulated	List prices €
Direct voltage, current 50 V, 0-(4)-20mA	vertical horizontal	BVO 3.001.310B BHO 3.001.310B	BVO 3.001.370B BHO 3.001.370B	

Direct voltage, current



OPTIONS	BVO ... DC	Extra price
Green LED	x	
Protection IP54	x	
Protection IP65	x	
Plug in terminal with protection IP40	x	
Plug in terminal with protection IP54	x	
Plug in terminal with protection IP65	x	
Other inputs on demand	x	
Other power supplies on demand	x	
Dimension strips selectable	x	





Bargraph vertical or horizontal with digital indication 3-digit

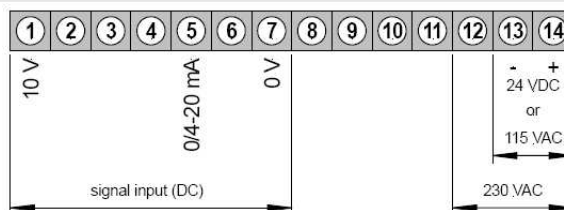
96 x 24 mm

Series BVD2, BHD2

Technical data		Features
Display	LED with 7 segments, 7 mm high, red 3-digit = indication 999 selectable with bargraph indication 20 segments or 30 segments without 7-segment indication	Without set points
Measuring time	1 sec	
Dimension	B96 x H24 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92,0 x 22,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range		230/115 VAC	24 VDC insulated	List prices €
Direct voltage, current 50 V, 0-(4)-20mA	vertical horizontal	BVD 2.001.310B BHD 2.001.310B	BVD 2.001.370B BHD 2.001.370B	

Direct voltage, current



OPTIONS	BVO... DC	Extra price
Green LED	x	
Protection IP54	x	
Protection IP65	x	
Plug in terminal with protection IP40	x	
Plug in terminal with protection IP54	x	
Plug in terminal with protection IP65	x	
Other inputs on demand	x	
Other power supplies on demand	x	
Dimension strips selectable	x	





**Bargraph with
microprocessor based
technology 3-digit
vertical or horizontal**

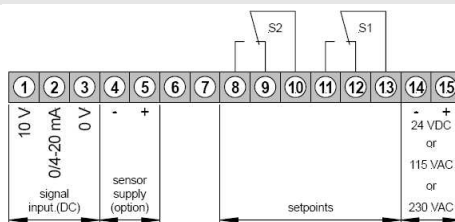
96 x 24 mm

Series PBHD2, PBVD2

Technical data		Features
Display	LED with 7 segments, 7 mm high, red 3 digits = indication 999 / bargraph indication 20 points	- Galvanically insulated 2 free scalable set points / hysteresis - Optical setpoint indication - Sensor supply galvanically insulated - Programmable bases for linearization - Analog output (galv. insulated) - Min / Max memory
Measuring time	1 sec	
Dimension	B96 x H24 x T134 mm (T=148 mm, including plug in terminal)	
Assembly cut out	92,0 x 22,0 mm	
Protective system	Front IP40, Connection IP00	
Connection	At the rear via terminals up to 2.5 mm ²	
Working temperature	0 .. 60° C	

Range		230 VAC	115 VAC	24 VDC insulated	List prices €
Direct voltage, current 50 V, 0-(4)-20mA	vertical horizontal	PBVD 2.001.3522B PBHD 2.001.3522B	PBVD 2.001.3422B PBHD 2.001.3422B	PBVD 2.001.3722B PBHD 2.001.3722B	

Direct voltage, current



OPTIONS	PBVD ... DC	Extra price €
Protection IP54	x	
Protection IP65	x	
Plug in terminal with protection IP40	x	
Plug in terminal with protection IP54	x	
Plug in terminal with protection IP65	x	
Sensor supply 24V/50mA	x	
Sensor supply 18V/30mA	x	
Sensor supply 24V/50mA (supply 24V DC galv. insulated)	x	
Sensor supply 18V/30mA (supply 24V DC galv. insulated)	x	
Analog output on demand	x	
Other supplies on demand	x	
Dimension strips selectable	x	
Green LED on demand	x	

