

PROGRAMMABLE LED INDICATOR



- 4-digit, 14-segment LED indicator
- Input for mA, V, Pt100, TC and potm.
- 2 relays and analogue output
- Universal supply voltage
- Front key programmable



Application:

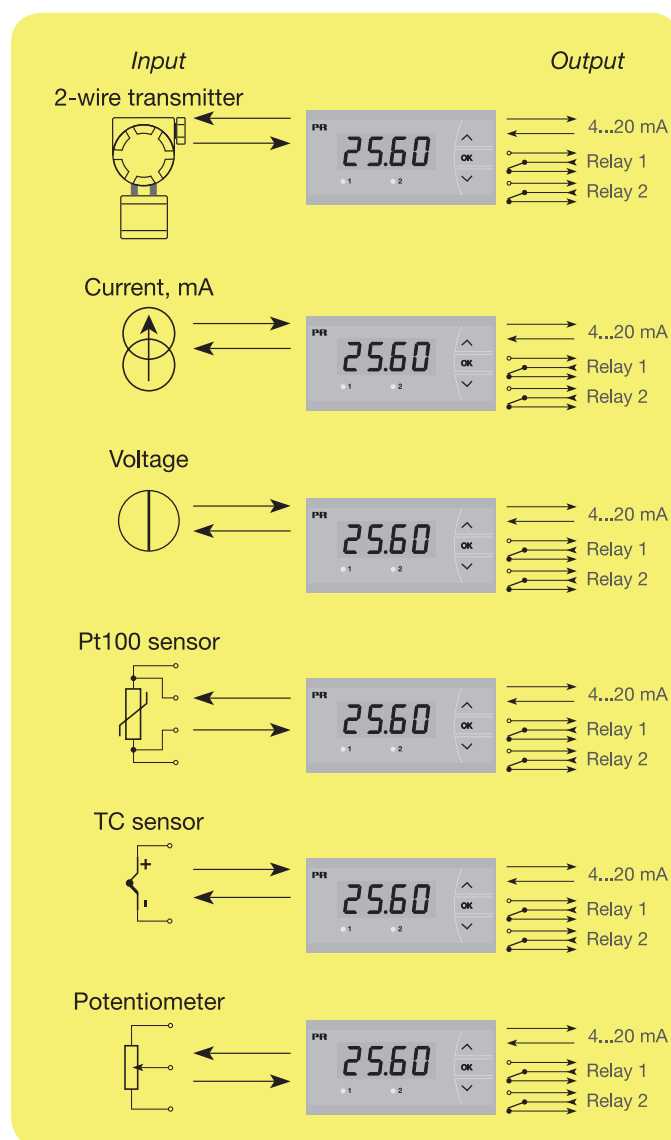
- Display for digital readout of current, voltage, temperature or 3-wire potentiometer signals.
- Process control with 2 potential free relays and / or analogue output.
- For local readout in extremely wet atmospheres with a specially designed, splash-proof cover.

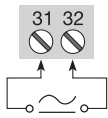
Technical characteristics:

- 4-digit LED indicator with 13.8 mm 14-segment characters. Max. display readout -1999...9999 with programmable decimal point, relay ON / OFF-indication.
- All operational parameters can be adjusted to any application by use of the front keys.
- PReview 5714 is available fully-configured according to specifications ready for process control and visualisation.
- In versions with relay outputs the user can minimise the installation test time by activating / deactivating each relay independently of the input signal.

Mounting:

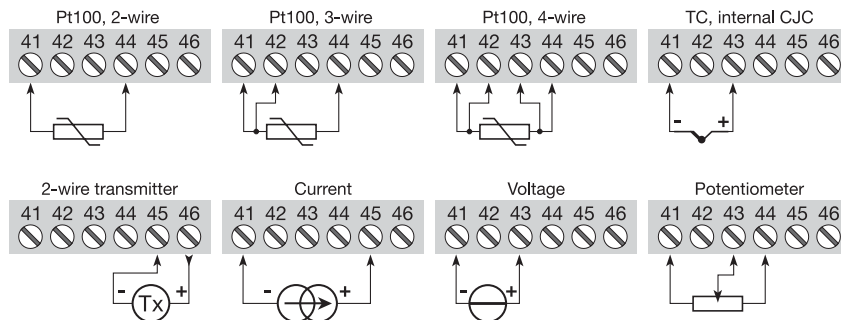
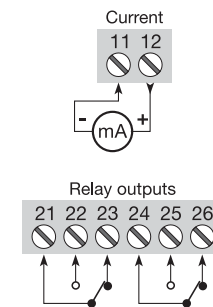
- To be mounted in front panel. The included rubber packing must be mounted between the panel cutout hole and the display front to obtain IP65 (NEMA 4) tightness. For extra protection in extreme environments, PReview 5714 can be delivered with a specially designed splash-proof cover as accessory.



Connections:**Supply:**

Type	Version	Language
5714	Standard	: A English : UK
	2 Relays	: B Dansk : DK
	Analogue output	: C Français : FR
	Analogue output and 2 relays	: D Deutsch : DE
		Svenska : SE
		Italiano : IT
		Español : ES

NB! Please order the splash-proof cover separately.
Order no. 8335.

Input:**Output:****Electrical specifications:****Specifications range:**

-20°C to +60°C

Common specifications:

Supply voltage, universal 24...230 VAC $\pm 10\%$
 50...60 Hz
 24...250 VDC $\pm 20\%$
 Max. consumption ≤ 3.5 W
 Isolation voltage, test / operation 2.3 kVAC / 250 VAC
 Signal / noise ratio min. 60 dB (0...100 kHz)
 Response time (0...90 %, 100...10 %):
 Temperature input < 1 s
 Current / voltage input < 400 ms
 Calibration temperature 20...28°C
 Accuracy, the greater of general and basic values:

General values		
Input type	Absolute accuracy	Temperature coefficient
All	$\leq \pm 0.1\%$ of reading	$\leq \pm 0.01\%$ of reading / °C

Basic values		
Input type	Basic accuracy	Temperature coefficient
mA	$\leq \pm 4$ μ A	$\leq \pm 0.4$ μ A / °C
Volt	$\leq \pm 20$ μ V	$\leq \pm 2$ μ V / °C
Pt100	$\leq \pm 0.2$ °C	$\leq \pm 0.02$ °C / °C
Potentiometer	$\leq \pm 0.1$ Ω	$\leq \pm 0.01$ Ω / °C
TC type: E, J, K, L, N, T, U	$\leq \pm 1$ °C	$\leq \pm 0.05$ °C / °C
TC type: B, R, S, W3, W5	$\leq \pm 2$ °C	$\leq \pm 0.2$ °C / °C

EMC immunity influence	$< \pm 0.5\%$ of reading
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Auxiliary supplies:

2 wire supply 25...16 VDC / 0...20 mA
 Wire size, pin 41-46 (max.) 1×1.5 mm² stranded wire
 Wire size, others (max.) 1×2.5 mm² stranded wire
 Screw terminal torsion 0.5 Nm
 Relative humidity $< 95\%$ RH (non cond.)
 Dimensions (HxWxD) 48 x 96 x 120 mm
 Cutout dimensions 44.5 x 91.5 mm
 Tightness (mounted in panel) IP65
 Weight 230 g

Pt100 and potentiometer input:

Input type	Min. value	Max. value	Norm
Pt100	-200°C	+850°C	IEC60751
Potentiometer	10 Ω	100 k Ω	-

Cable resistance pr. wire, Pt100 (max.) 50 Ω
 Sensor current, Pt100 Nom. 0.2 mA
 Effect of sensor cable resistance
 (3- / 4-wire), Pt100 < 0.002 Ω / Ω
 Sensor error detection, Pt100 Yes
 Short circuit detection, Pt100 < 15 Ω

TC input:

Type	Min. value	Max. value	Norm
B	+400°C	+1820°C	IEC 60584-1
E	-100°C	+1000°C	IEC 60584-1
J	-100°C	+1200°C	IEC 60584-1
K	-180°C	+1372°C	IEC 60584-1
L	-200°C	+900°C	DIN 43710
N	-180°C	+1300°C	IEC 60584-1
R	-50°C	+1760°C	IEC 60584-1
S	-50°C	+1760°C	IEC 60584-1
T	-200°C	+400°C	IEC 60584-1
U	-200°C	+600°C	DIN 43710
W3	0°C	+2300°C	ASTM E988-90
W5	0°C	+2300°C	ASTM E988-90

Cold junction compensation (CJC) ... $< \pm 1.0$ °C

Sensor error detection Yes

Sensor error current:

when detecting Nom. 2 μ A
 else 0 μ A

Current input:

Measurement range -1...25 mA
 Programmable measurement ranges 0...20 and 4...20 mA
 Input resistance Nom. 20 Ω + PTC 25 Ω

Voltage input:

Measure range -20 mV...12 VDC
 Programmable measurement ranges 0...1 / 0.2...1 /
 0...10 / 2...10 VDC
 Input resistance Nom. 10 M Ω

Display:

Display readout -1999...9999 (4 digits)
 Decimal point Programmable
 Digit height 13.8 mm
 Display updating 2.2 times / s
 Input outside input range is
 indicated by Explanatory text

Current output:

Signal range (span) 0...20 mA
 Programmable signal ranges 0...20 / 4...20 /
 20...0 / 20...4 mA
 Load (max.) 20 mA / 800 Ω / 16 VDC
 Load stability $\leq 0.01\%$ of span / 100 Ω
 Sensor error detection 0 / 3.5 / 23 mA / none
 NAMUR NE 43 Upscale 23 mA
 NAMUR NE 43 Downscale 3.5 mA
 Current limit ≤ 28 mA

Relay outputs:

Max. voltage 250 VRMS
 Max. current 2 A / AC
 Max. AC power 500 VA
 Max. current at 24 VDC 1 A
 Sensor error detection Make / Break / Hold

Marine approval:

Det Norske Veritas, Ships & Offshore. Stand. for Certific. No. 2.4

Observed authority requirements: Standard:

EMC 89/336/EEC:
 Emission and immunity EN 61326
 LVD 73/23/EEC EN 61010-1
 UL, Standard for Safety UL 508