

Digital Panel Meter for Impulse Counter

Impulse counter, ratemeter and periodmeter. Reading at 6 digits with 14 mm digit height. Standard 96 x 48 mm (1/8 DIN) size, for panel mount. Accepts all type of impulse signals and encoders. Provides excitation voltage for the sensor. Universal high and low AC and DC power options. Optional output modules with relay, transistor, SSR control, analog outputs and MODBUS RTU communication.

Technical specifications

Digits 6

Reading 999999 / -199999
Decimal point configurable
Led color red or green
Digit height 14 mm

Signals accepted NPN, PNP, Namur, pick-up, TTL, inductive, mechan-

ical ,quadrature, ...

Excitation voltage +5 Vdc, +9 Vdc, +15 Vdc, +18 Vdc (max. 70 mA)

Maximum Vdc at input terminals±30 VdcQuartz accuracy±0.01 %Thermal stability20 ppm/⁰CDisplay refresh15 refresh / secondMaximum frequenciescounter up to 250 KHz

ratemeter and periodmeter up to 500 KHz
Minimum frequencies ratemeter and periodmeter down to 1 mHz (0.001 Hz)

Power 'H' 85 to 265 Vac/dc (isolated 2500 Veff)

Power 'L' 11 to 60 Vdc and 24/48 Vac (isolated 1500 Veff)

Retransmission and control options relays, analog output, serial communications, ...

Consumption <1.5 W (meter only)

<4.0 W (meter with options)

Front protection IP65

Connections plug-in screw terminal

Weight <150 grams
Mounting panel
Front size 96 x 48 mm
Panel cut-out 92 x 44 mm

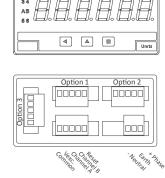
Deep 91 mm (including terminals)

Operating temperature 0 to 50 °C

Dimensions and connections

female terminals needed.

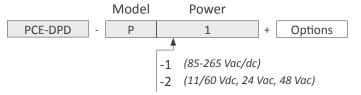




PCE-DPD-P1 PCE-DPD-P2



Order reference



Up to 3 slots for options availables

PCE-DPD/R (1 relay SPDT)

PCE-DPD/AV (analog output mA & Vdc)

PCE-DPD/MB (Modbus RTU)
PCE-DPD/485 (RS-485)
PCE-DPD/232 (RS-232)
PCE-DPD/T (1 transistor)
PCE-DPD/SSR (1 SSR control)

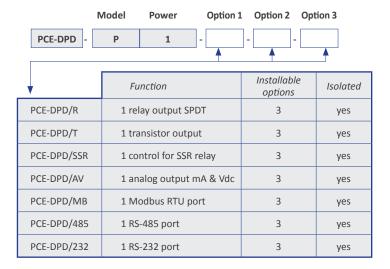
Functions included

FullCuons incl	uueu
	a single press on the front keypad gives access to alarm setpoint modification, preset, memories,
Function 'SLOW' s	special mode for low frequency ratemeter applications
Function 'FAST' s	special mode for high frequency counter applications
Scaling factor	nultiplier and divider from 1 to 999999
Configurable reset fr	ront and rear reset, and reset linked to alarm activation
Presetc	configurable
Trigger levelc	configurable
Function 'Trigger Sense' h	nelp on setting the correct trigger level
Sensor selection	oy menu
Cycle counter	count of cycles defined by the 'on alarm reset' function
Retention memoryr	ecovers the counting value in case of power loss
	protects remote systems by delaying the output and control signals at cold start-up.
а	with one or two setpoints, independent activation and deactivation delays, hysteresis, optional manual deactivation of the relay.
Inverted relay for	or security applications
Display filtersr	ecursive filters for unstable signals
Brightness 5	5 levels of brightness intensity.

Password blocks access to configuration menu.



Output and control options



Application example

Reading of total processed meters on a paper mill. Signal received from a built-in bidirectional encoder at the roller. Operator has a manual reset control to set the counter to '0' at start. A relay output stops the mill when the total desired meters has been reached. A second meter, configured as ratemeter, reads the actual RPM speed of the roller. A relay output controls an alarm signal in case of excessive speed.

