

DIGITAL PRESSURE INDICATOR

4 DIGITS - DPI / RPI / DPG



KEY FEATURES

- + Vacuum, Low and High Pressure Indication
- + 4-Digit [kPa] Display Version
- + I/O Driver integrated for Alarms, Regulation, Etc. – Optional
- + CAN Bus Or One Wire Communications
- + Multiple sensor input
- + Super Bright LED Display

DPI types of Digital Pressure Indicators are designed to display system pressure using 3 or 4-digit ultra-bright LED display where multiple pressure sensors can be connected. The unit standardly uses a -1..24 bar, 0..25 bar and 0..60 bar pressure sensors. The sensor input is widely configurable and it can be used for 0.5-4.5 V and 0-10 V transducers or 4-20 mA transmitters.

Optional I/O driver can be integrated for activating warning output, regulating the system pressure, etc.

The Digital Pressure Indicator can be used as a stand-alone system or as a part of MMX system connected via CAN bus to IO Controller. Several slave-remote pressure indicators (RPI) can be connected to a master indicator DPI to show the same value on different locations.



SPECIFICATIONS

POWER

Supply Voltage 9-30 V DC

Current 0.5 A maximum, no outputs active

Electrical Protection overvoltage, transients, reverse polarity

INTERFACES

CAN 1 x CAN

CAN termination 120 ohm, solder pad on PCB

Serial communication 1 x T (1 Wire), optional

I/O

Sensor input 0.5-4.5 V Standardly, 0-5V, 0-10V, 4-20 mA

Digital Input GND, only with CAN bus device

Digital Output *Only version with integrated I/O driver

OUT1 positive switching (high-side), max. 6 A (Low water warning)

OUT2

OUT3-OUT7 positive switching (high-side), max. 1.5 A (Autofill-

Hysteresis)

negative switching (low-side), max. 1.8 A (large light

driver)

Loads Inductive, capacitive, resistive

ENVIROMENT

IP Class (IEC529) IP67 front panel, IP20 from the back

EMC Conformity EN61000-6-2 noise immunity

EN61000-6-4 radiation of interference

Temperature Range storage -40° to +85°C (-40° to 185°F)

operating -40° to +85°C (-40° to 185°F)

ENCLOSURE

Housing Material aluminium

Mounting in-dash, with clips or springs

Mating Connector Terminal block 4, 8 or 13 way depending on selected options

MISCELLANEOUS

LED display 4 digit (kPa)

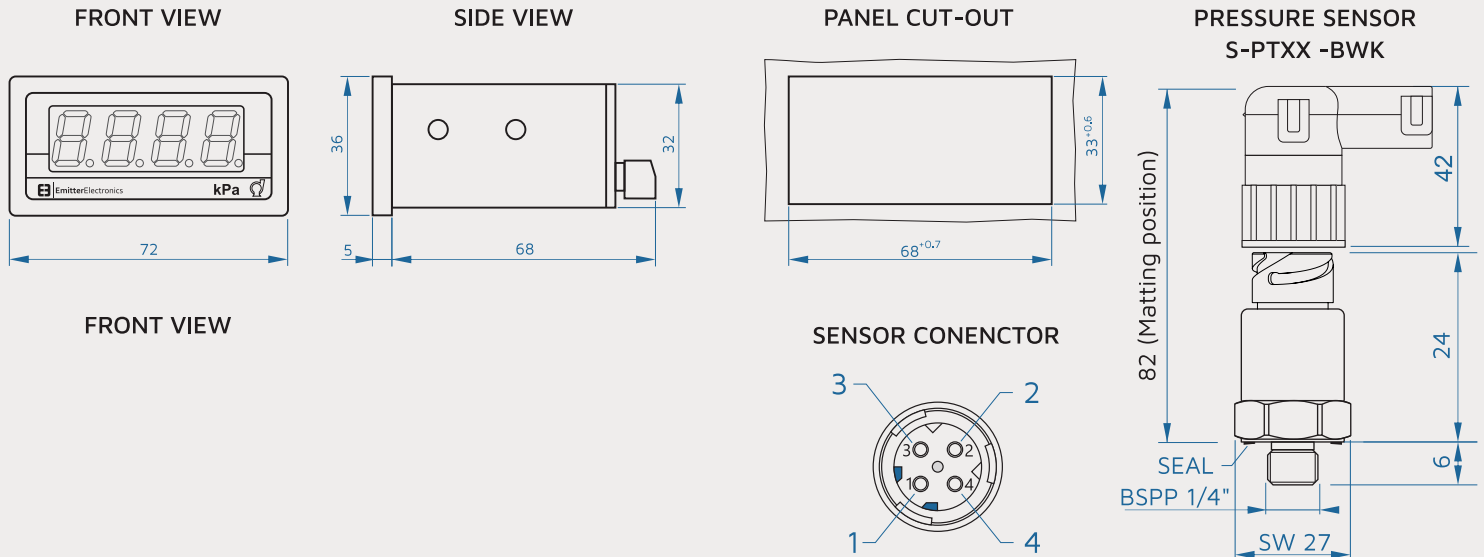
Reading resolution @P<30 bar: 0.1 bar (10 kPa), @P>30 bar: 1 bar

SIZE & WEIGHT

W x H x D 36 x 72 x 68 mm with connector

Weight 0.10 kg

DIMENSIONS



CONNECTIONS

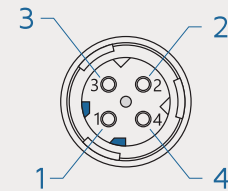
CONNECTION STANDARD DEVICE

PIN	Description
1	BATTERY + ("15")
2	BATTERY -
3	OUT1 (OPTIONAL)
4	T-COMMUNICATION
5	SENSOR [V] GND
6	SENSOR [V]/[mA] SIGNAL
7	SENSOR [V]/[mA] VCC+
8	OUT2 (OPTIONAL)
9	OUT3 (OPTIONAL)
10	OUT4 (OPTIONAL)
11	OUT5 (OPTIONAL)
12	OUT6 (OPTIONAL)
13	OUT7 (OPTIONAL)

CONNECTION CAN BUS DEVICE

PIN	Description
1	BATTERY + ("15") / SENSOR SUPPLY (OPTIONAL)
2	BATTERY - / SENSOR GND (OPTIONAL)
3	OUT1 (OPTIONAL)
4	T-COMMUNICATION / OUT3 (OPTIONAL)
5	IN1
6	SENSOR [V]/[mA] SIGNAL
7	OUT5 (OPTIONAL)
8	SENSOR [V]/[mA] VCC+ / OUT4 (OPTIONAL)
9	OUT5 (OPTIONAL)
10	SENSOR [V] GND / OUT6 (OPTIONAL)
11	OUT7 (OPTIONAL)
12	CAN L
13	CAN H

TRANSDUCER OEM



CONNECTION TWIST LOCK (ISO 15170)

PIN	VOLTAGE SENSOR	CURRENT SENSOR
1	BATTERY +	BATTERY +
2	GND	SIGNAL 4-20 MA
3	SIGNAL 0.5-4.5V	N/C
4	N/C	N/C

PRODUCT CODE

SET of DPI - master Indicator, pressure sensor, sensor cable

Ordering code example:

D	P	G	-	0	0	2	5	T	-	0	5	R	R	
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	--

MEASURING RANGE 0024: -1 .. 24 BARS 0025: 0 .. 25 BARS 0060: 0 .. 60 BARS 2200: 0 .. 2200 KPA	T: 1 WIRE C: CAN BUS	CABLE LENGTH, METERS (INCH) 05: 5 M (20") 10: 10 M (40") 15: 15 M (60")	OUT1 R: OUTPUT 1	OUT2 H: HYSTERESIS R: ADD. OUTPUT	SPECIAL MODIFICATION
---	----------------------------	--	---------------------	---	----------------------

Remote Indicator

Ordering code example:

R	P	I	-	B	T	I	R	R	
----------	----------	----------	----------	----------	----------	----------	----------	----------	--

UNITS: B: BAR P: KPA	T: 1 WIRE C: CAN BUS	LED BRIGHTNESS I: INSIDE O: OUTSIDE	OUT1 R: OUTPUT 1	OUT2 H: HYSTERESIS R: ADD. OUTPUT
----------------------------	----------------------------	---	---------------------	---

Master Indicator

Ordering code example:

D	P	I	-	0	0	2	5	I	2	T	R	R	
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	--

MEASURING RANGE 0024: -1 .. 24 BARS 0025: 0 .. 25 BARS 0060: 0 .. 60 BARS 2200: 0 .. 2200 KPA	SENSOR INPUT / PROBE U4: 0,5-4,5V U1: 0-10 V I2: 4-20 MA	T: 1 WIRE C: CAN BUS	OUT1 R: OUTPUT 1	OUT2 H: HYSTERESIS R: ADD. OUTPUT	SPECIAL MODIFICATION
---	---	-------------------------	---------------------	---	----------------------