



**EMITTER**  
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# TANK LEVEL GAUGE

## INL-08 / RIL-08 / TLGL-08

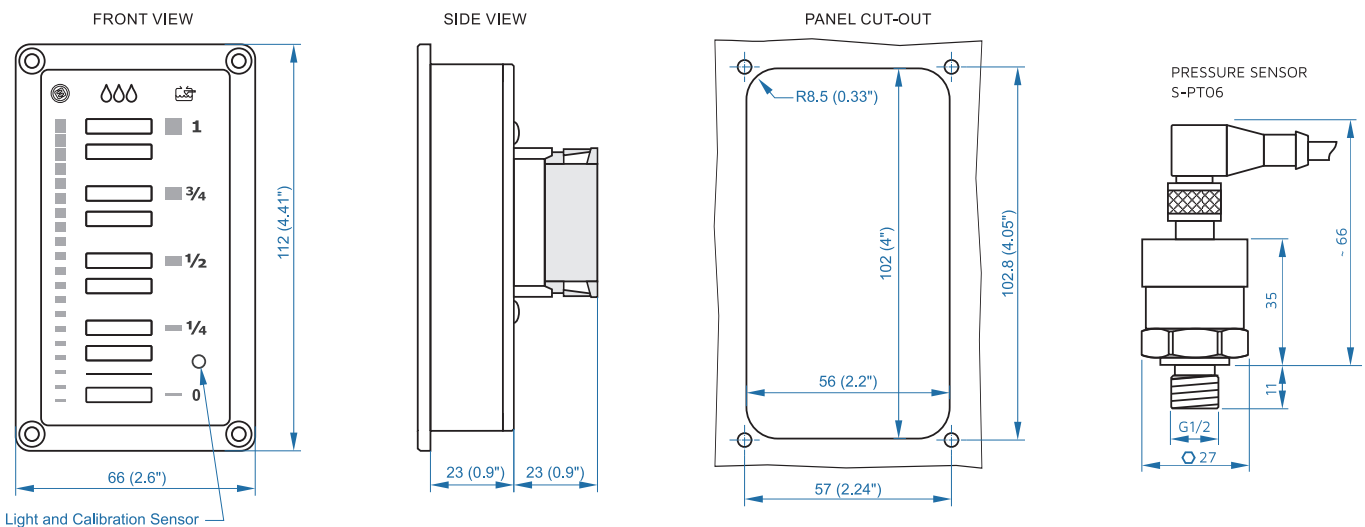


### Features and Benefits

- 1 **180° Viewing Angle**
- 2 **I/O Driver For Low Water Warning, Autofill-Hysteresis, Mute Input, Etc.**
- 3 **Can Bus Datalink**
- 4 **Super Bright Leds**
- 5 **Dimmable-Light Sensor**
- 6 **Low Installation Depth**
- 7 **Washable, Waterproof Aluminium Housing**

INL-08 types of Tank Level Gauges are designed to display liquid's volume at an accuracy of 1/8 of the tank level using ultra-bright LEDs. The transducer measures the column of the liquid in the tank above the sensor process input and provides a signal that is proportional to the tank high. The unit standardly uses a pressure transducer with output 0.5-4.5 V.

The sensor input is widely configurable and it can also be used for 0.5-4.5 V, 0-10 V, 4-20 mA sensors and conductive or resistive probes.

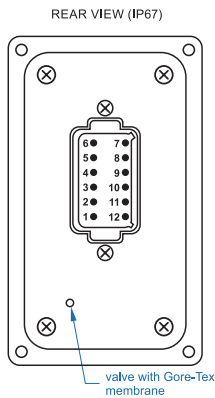


Optional I/O driver can be integrated for low level warning output, autofill-hysteresis output, mute input, etc.

The Tank Level Gauge can be used as a stand-alone system or as a part of MMX system connected via CAN bus to IO Controller. Several

slave indicators (large remote - RIL) can be connected to a master indicator INL to show the same value on different locations or in combination with a small remote indicator (RIS) for the cabin and XL remote indicator (RIXL) for the vehicle sides.

## Connection



### CONNECTION Deutsch DT06-6S

PIN	DESCRIPTION
1	BATTERY + ("15")
2	CAN L
3	CAN H
4	SENSOR [V] OR [mA] VCC+
5	SENSOR [V] GND
6	SENSOR [V] OR [mA] SIGNAL
7	OUT1 (OPTIONAL), e.g. LOW WATER
8	OUT2 (OPTIONAL), e.g. AUTOFILL
9	OUT3 (OPTIONAL)
10	OUT4 (OPTIONAL)
11	INPUT (OPTIONAL)
12	BATTERY -

## Transducer-OEM

### SPECIFICATION AND CONNECTION

<b>Pressure Range</b>	0-600 mbar (0 - 6 m tank height)
<b>Signal Output</b>	0.5-4.5 V
<b>IP Class (IEC529)</b>	IP67
<b>Transducer Material</b>	Stainless steel 316L
<b>Pressure Port</b>	1/4"
<b>Transducer Cable</b>	3 x 0.35 mm2 with M12 connector
<b>M12 Connection</b>	1:Ub, 3:GND, 4:Signal+

## Specifications

POWER	
<b>Supply Voltage</b>	8-32 V DC
<b>Current</b>	0.5 A maximum, no outputs active
<b>Electrical Protection</b>	overvoltage, transients, reverse polarity, load dump
INTERFACES	
<b>CAN</b>	1 x CAN
<b>CAN termination</b>	120 ohm, DIP switch
I/O	
<b>Sensor input</b>	0.5-4.5 V, 0-5V, 0-10V, 4-20 mA, resistive probe, conductive probe through extra M12 connector
<b>Digital Input</b>	configurable active low/high levels 0..Ub, protected
<b>Digital Output</b>	<i>*Only version with integrated I/O driver</i>
OUT1	positive switching (high-side), max. 3 A (Low water warning)
OUT2	positive switching (high-side), max. 1.5 A (Autofill-Hysteresis xx/xx%)
OUT3	positive switching (high-side), max. 1.5 A
OUT4	negative switching (low-side), max. 0.5 A
<b>Loads</b>	inductive, capacitive, resistive
<b>Miscellaneous</b>	protection from short circuit and overload

ENVIRONMENT	
<b>IP Class (IEC529)</b>	IP67, waterproof
<b>EMC Conformity</b>	EN61000-6-2 noise immunity EN61000-6-4 radiation of interference
<b>Temperature Range</b>	storage -40° to +85°C (-40° to 185°F) operating -40° to +85°C (-40° to 185°F)
ENCLOSURE	
<b>Housing Material</b>	aluminium
<b>Mounting</b>	in-dash, with 4 screws M3 or 3.5 mm (#8) tapping screws
<b>Matting Connector</b>	Deutsch DT06-12S
MISCELLANEOUS	
<b>Indicator increments</b>	1/8
<b>Day/Night operation</b>	automatic – integrated light sensor
<b>Front panel</b>	backlit, colour coded for water and foam
<b>Detectable substances</b>	water, fire-smothering foam, gasoline, etc
SIZE AND WEIGHT	
<b>W x H x D</b>	66 x 112 x 23 mm (2.6"x4.41"x0.9") without connector
<b>Weight</b>	0.25 kg (0.55 lbs)

## How to order (use characters in bold to create order code)

### SET of Master Indicator - Large INL, Sensor PT06-U4, Sensor cable

Ordering code example:

<b>T</b>	<b>L</b>	<b>G</b>	<b>L</b>	-	<b>O</b>	<b>8</b>	<b>W</b>	-	<b>O</b>	<b>5</b>	<b>R</b>	<b>H</b>		
<b>O8</b> DISPLAY INCREM. 1/8		<b>W</b> : WATER <b>F</b> : FOAM		CABLE LENGTH, METERS (INCH) <b>O5</b> : 5 M (20") <b>10</b> : 10 M (40") <b>15</b> : 15 M (60")		<b>R</b> : LOW LEVEL WARNING		OUT2 <b>H</b> : AUTOFILL HYST. xx/xx % <b>R</b> : ADD. OUTPUT		OUT3, OUT4 <b>O</b> : 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE <b>M</b> : MUTE OUT1		

### Remote Indicator - Large

Ordering code example:

<b>R</b>	<b>I</b>	<b>L</b>	-	<b>O</b>	<b>8</b>	<b>W</b>	<b>O</b>	-	<b>R</b>	<b>H</b>			
<b>O8</b> DISPLAY INCREM. 1/8		<b>W</b> : WATER <b>F</b> : FOAM		LED BRIGHTNESS <b>I</b> : INSIDE <b>O</b> : OUTSIDE		<b>R</b> : LOW LEVEL WARNING		OUT2 <b>H</b> : AUTOFILL HYST. xx/xx % <b>R</b> : ADD. OUTPUT		OUT3, OUT4 <b>O</b> : 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE <b>M</b> : MUTE OUT1	

### Master Indicator - Large

Ordering code example:

<b>I</b>	<b>N</b>	<b>L</b>	-	<b>O</b>	<b>8</b>	<b>W</b>	<b>U</b>	<b>4</b>	<b>R</b>	<b>H</b>			
<b>O8</b> DISPLAY INCREM. 1/8		<b>W</b> : WATER <b>F</b> : FOAM		SENSOR INPUT / PROBE <b>U4</b> : 0.5-4.5V <b>U1</b> : 0-10 V <b>I2</b> : 4-20 MA <b>RO</b> : RESISTIVE IN		<b>R</b> : LOW LEVEL WARNING		OUT2 <b>H</b> : AUTOFILL HYST. xx/xx % <b>R</b> : ADD. OUTPUT		OUT3, OUT4 <b>O</b> : 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE <b>M</b> : MUTE OUT1	



**EMITTER ELECTRONICS**

Engineering, production and service  
Tržaška cesta 65, SI-2000 Maribor, Slovenia, Europe

Phone +386 5 995 1 973  
mobile +386 41 726 476

info1@emitter.org  
www.emitter.org

