

TANK LEVEL GAUGES I

INL-08 / RIL-08 / TLGL-08



KEY FEATURES

- + 180° Viewing Angle
- + I/O Driver For Low Water Warning, Autofill-Hysteresis, Mute input, Etc.
- + CAN Bus Interface
- + Super Bright LEDs
- + Ambient Light Sensor
- + Low Installation Depth
- + 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.

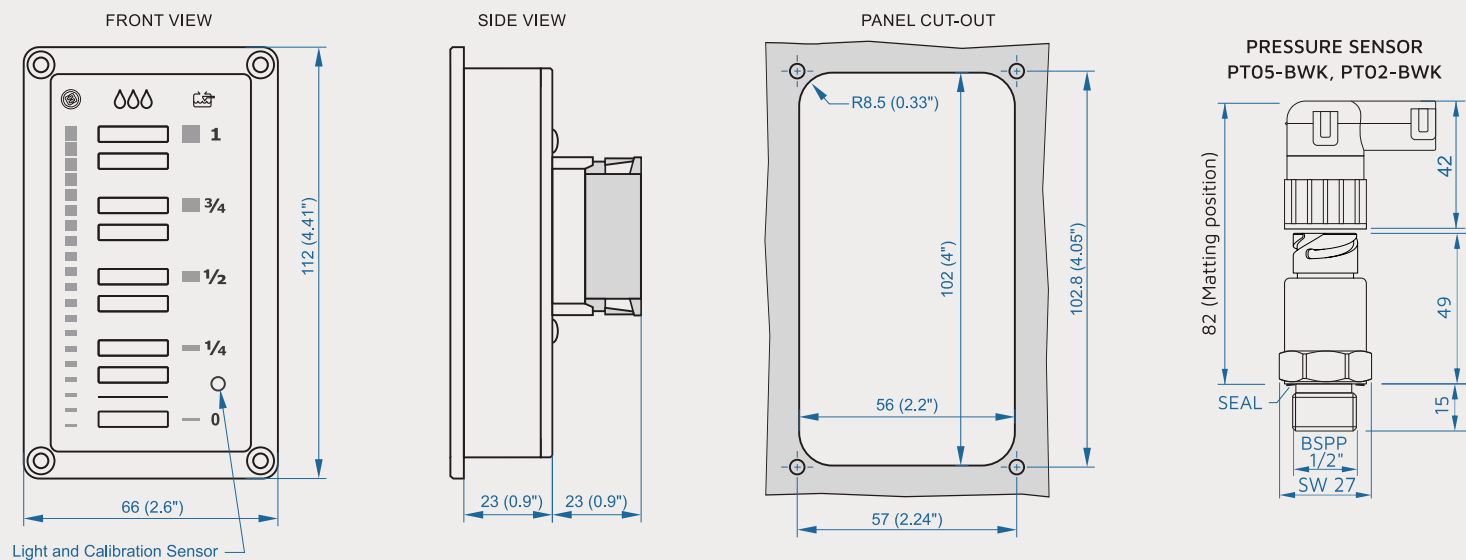
The sensor input is widely configurable and it can also be used for 0.5-4.5 V, 0-10 V, 4-20 mA sensors and conductive or resistive probes.

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 remote indicators can be connected to a main indicator to show the same value on different locations or in combination with a XL remote indicator (RIXL) for the vehicle sides.

SPECIFICATIONS

POWER	
Supply Voltage	8-30 V DC
Current	0.5 A maximum, no outputs active
Electrical Protection	overvoltage, transients, reverse polarity, load dump
INTERFACES	
CAN	1 x CAN
CAN termination	120 ohm, DIP switch
I/O	
Sensor input	0.5-4.5 V, 0-5V, 0-10V, 4-20 mA, resistive probe, conductive probe through extra M12 connector
Digital Input	configurable active low/high levels 0..Ub, protected
Digital Output	<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-OUT4	positive switching (high-side), max. 1.5 A
OUT5	negative switching (low-side), max. 0.5 A
Loads	Inductive, capacitive, resistive
Miscellaneous	protection from short circuit and overload
ENVIROMENT	
IP Class (IEC529)	IP67, waterproof
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 4 screws M3 or 3.5 mm (#8) tapping screws
Mating Connector	Deutsch DT06-12S
MISCELLANEOUS	
Indicator increments	1/8
Day/Night operation	automatic – integrated ambient light sensor
Front panel	backlit, colour coded for water and foam
Detectable substances	water, fire-smothering foam, gasoline, etc
SIZE & WEIGHT	
W x H x D	66 x 112 x 23 mm (2.6"x4.41"x0.9") without connector
Weight	0.25 kg



REAR VIEW (IP67)

valve with Gore-Tex membrane

CONNECTION DEUTSCH DT06-65

PIN	Description
1	BATTERY + ("15")
2	CAN L
3	CAN H
4	SENSOR [V]/[MA] VCC+
5	SENSOR [V] GND
6	SENSOR [V]/[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

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

SET of main indicator - Large INL, Sensor PT05-U4										Ordering code example:		
T	L	G	L	-	0	8	W	-	R	H		
08 DISPLAY INCREM. 1/8		W: WATER F: FOAM				OUT1 R: LOW LEVEL WARNING		OUT2 H: AUTOFILL HYST. xx/xx % R: ADD. OUTPUT		OUT3, OUT4 O: 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE M: MUTE OUT1

Remote Indicator - Large - For use with main indicators featuring a U1 (0–10 V) sensor input.												
R	I	L	-	0	8	W	-	R	H			
08 DISPLAY INCREM. 1/8		W: WATER F: FOAM				OUT1 R: LOW LEVEL WARNING		OUT2 H: AUTOFILL HYST. xx/xx % R: ADD. OUTPUT		OUT3, OUT4 O: 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE M: MUTE OUT1

***NOTE:** Selection of all three options R, H and L for the same indicator is standardly not possible. Options that are available are R, H, L and the combination RH

Main Indicator - Large - Automatically operates as main or remote indicator, depending on the sensor input and connection												
I	N	L	-	0	8	W	U	4	R	H		
08 DISPLAY INCREM. 1/8		W: WATER F: FOAM		SENSOR INPUT / PROBE U4: 0,5-4,5V U1: 0-10 V I2: 4-20 MA R0: RESISTIVE IN		OUT1 R: LOW LEVEL WARNING		OUT2 H: AUTOFILL HYST. xx/xx % R: ADD. OUTPUT		OUT3, OUT4 O: 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE M: MUTE OUT1