DISIBEINT



Functionality

Transducer that allows real-time monitoring of the level of a tank/bottle/drum and the temperature of the medium to be controlled.
The measured pressure corresponds to that exerted by the column of liquid on the air that remains captive in the lower part of the body of the probe.
 Level control in drums and barrels Equipment for chemical laboratories Equipment for agriculture (sulfatadora,) Diesel tanks Laundries, car washes Cage deposits, IBC (works, provisional,) Recycling processes Control of mother tanks
1035 VDC
< 5mA
Depending on model: - 0-500 mm.w.p. - 0-1500 mm.w.p.
-10 +60 °C
100 ms by default, modifiable via Modbus.
- Model of 500 mm.c.a.: +/-1.25% at scale found <=> 12.5 mm - Model of 1500 mm.c.a.: +/-1% at scale found <=> 30 mm
2ºC
PVC
10 psi (7,031 mwp)
IP67
RS-485 three threads (A+/S GND/ B-) (RX/GND/TX)
9600 bps, 8, N, 1
Plug & Play: No adjustment required. The equipment is configured at the factory.
If the transducer gives erroneous readings it may be because the sensor has gotten wet at the reading point. In this case, allow it to air dry without applying pressurized air.



TPB 80 TAB

Low pressure transducer





Leds	
	$\begin{array}{c} \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \\ 1 & 2 & 3 & 4 \end{array}$
Led 1	 LED Power: Green: Correct supply voltage, with correct connection to the sensor. Red: Correct supply voltage, without connection to the sensor. Blue: Lights up when the height of the level increases by more than 1% every 100ms (Default refresh time, as factory value, editable via Modbus). This data will be valid to verify the correct operation of the equipment, when it is introduced into the tank/bottle.
Led 2	LED Rx/Tx: - Red: Data reception via RS485 - Green: Data transmission via RS485
Led 3	LED 500 mm: - Green: Illuminates when the measured height exceeds 500 mm
Led 4	LED 1500mm: - Green: Illuminates when the measured height exceeds 1500 mm
Connection examples	
Termination	B- H+ GND A+T H-
Order code	
	TPB 80 TAB PVC 735 P06 L??? ST
	Where ??? can be 500 or 1500 depending on the model chosen

MODBUS TABLE

Set	up
-----	----

Magnitude	Register	Bytes No	Function	Remarks
Peripheral Nr.	0x00	2	3, 6, 16 (0x10)	1255
Comm parameters	0x01	2	3, 6, 16 (0x10)	(See table)
ID_Manufacturer	0x02	4	3	Manufacturer code
ID_ProductCode	0x04	8	3	ERP code
ID_Verify	0x08	2	3	
HW_Version	0x09	2	3	
SW_Version	0x0A	2	3	
MODEL_Serie	0x0B	4	3	
SERIAL_Number	0x0D	6	3	Serial no.
Refresh	0x10	2	3, 6	Refresh
TAG	0x12	16	3, 6, 16 (0x10)	<= 16 char.
Reference	0x1A	50	3	<= 50 char.

Communication parameters

Command	bps	Bits	Parity	StopBit
0	9600	8	E	1
1	19200	8	E	1
2	9600	8	Ν	2
3	19200	8	N	2
4	9600	8	Ν	1
5	19200	8	N	1

Data

Magnitude	Register	Bytes No	Function	Remarks
Temperature	0x00	4	4	°C (IEEE754)
Pressure	0x02	4	4	mm.w.p. (IEEE754)

Related products



dePACK has RS-485 communication with which to extract all the necessary information from the TPB. They also have the capacity to store, process and monitor data. The equipment has a programming environment for the automation and management of the system.

Connection



+34 934 560 995 www.disibeint.com disibeint@disibeint.com