

VOLUMIX Series

Indicator & associated level probe

Ref : 2560

Rev : A



DESCRIPTION

MESUREX developed a set dedicated to the display and level monitoring in petroleum, domestic fuel oil tanks, etc... In association with our PRNIV2 level probe, we offer a display box that we configure specifically according to the dimensions of your tank.

The display unit installed in a cabinet is supplied with 230 Vac. It indicates the volume of product remaining in the tank, controls 2 or 4 alarms (low alert threshold, tank empty, tank almost full, tank full) and returns an analog signal proportional to the level of the tank. We can use this signal to transfer the information to a PC or phone via a remote application. The kit is delivered with a G1 1/4, G1 1/2 or G2 plug which allows the probe to be positioned in the tank.

TECHNICAL CHARACTERISTICS

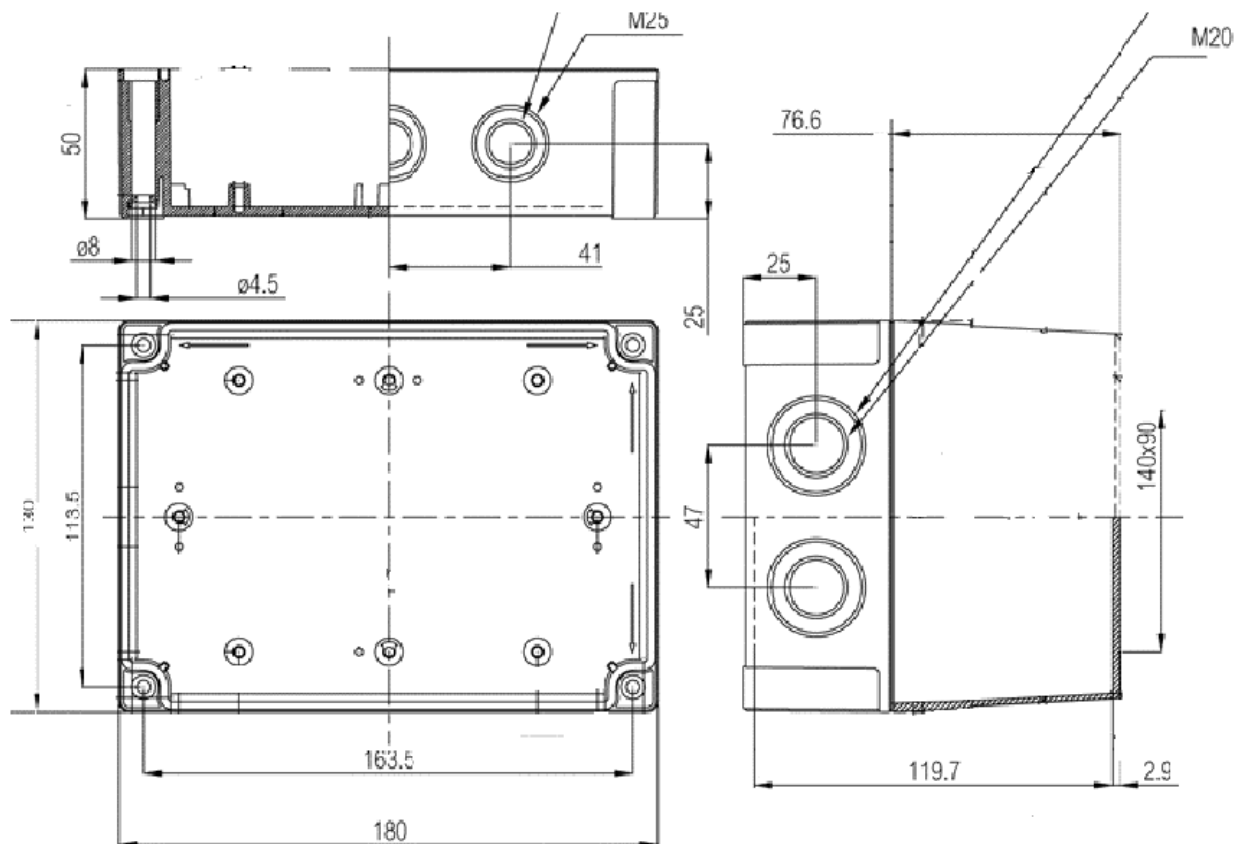
Power supply	80 to 250 VAC/DC or 10 to 30 VAC/DC
Type of fluid	All fluids (water, fuel-benzine, oil, etc.)
Type de tank	All tanks (cylindric horizontal or vertical, square, rectangular etc.)
Warning buzzer	4 exit alarms to warn on very low / low / high / very high level Factory setting: 5%, 10%, 90% et 95% of tank volume
Remote display	Up to 350m
Display	Display of real tank volume in Liters or cubic meters
Remote management system	Feedback signal 4/20 mA or 0/10V
Security	Protection with password for the setting of the thresholds and type of feedback signal

DIMENSIONS OF TANKS

Nominal capacity in liter	External diametre in mm	Nominal capacity in liter	External diametre in mm
1 500	1,25 m	20 000	2,50 m
2 000	1,25 m	25 000	2,50 m
3 000	1,25 m	30 000	2,50 m
4 000	1,25 m	36 000	2,50 m
5 000	1,50 m	40 000	2,50 m
5 500	1,50 m	40 000	3,00 m
6 000	1,50 m	50 000	3,00 m
7 500	1,90 m	50 000	2,50 m
8 000	1,90 m	60 000	2,50 m
10 000	1,90 m	60 000	3,00 m
12 000	1,90 m	80 000	3,00 m
15 000	1,90 m	100000	3,00 m
Other types of tanks, please contact us			

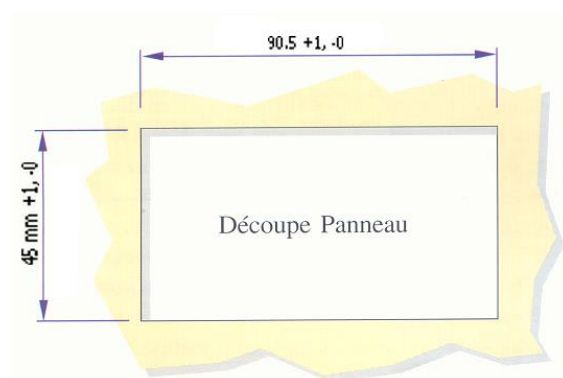
DIMENSIONS POUR LA FIXATION DU COFFRET MURAL

Overall dimensions: 130 x 180 mm ; Centre-to-centre drilling distance: 113,5 x 163,5 mm

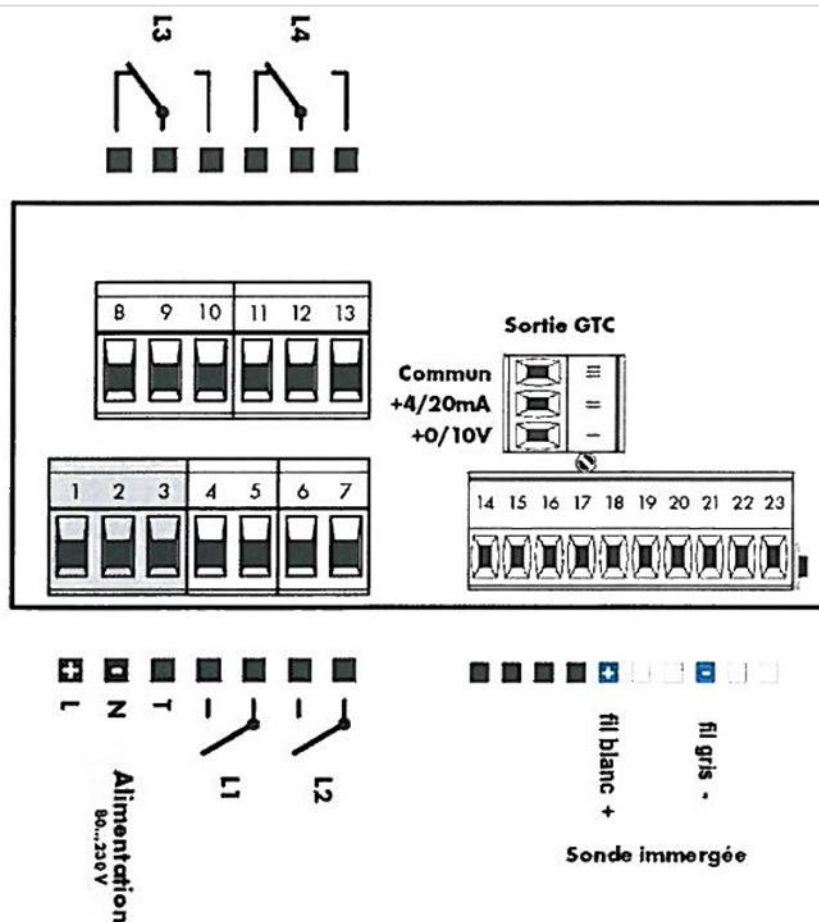


DIMENSIONS WITHOUT USE OF THE WALL CASE

Dimension Plastron	48 mm long x 96 mm large (1/8DIN)
Panel cut-out	45 mm long x 90.5 mm large
Case depth	94 mm incl. connector
Weight	290 grammes
Case construction material	Black polycarbonate
Connectors	Connectors with removable screws
Tightness	IP65 front part mounted on the panel



ELECTRICAL CABLING



MESSAGES

E.T.UN

MEANING

- . Break in the sensor line
- . Transmitter not connected

DISPLAY MODE

If Volume $\leq 10,000$ liters display in liter

If Volume $> 10,000$ liters display in m³, ten and hundred m³

Example: If V = 12,000 liters display 12.00 m³

PROGRAMMING UNLOCKING PROCEDURE (FACTORY CODE 2009)

Press the key

"MENU" display

Hold down the key and Press the key

"PASSW." display

Press the key

Flashing display "0"

Press the key to display "9"

Press the key to change digit

Display "0"

Press the key to change digit

Display "0"

Press the key to change digit

Press the key to display "2"

On the display must be written the code "2009"

Press the key

PROCEDURE REGLAGE DES SEUILS

Unlock the display (see procedure unlocking programming)

When the display indicates "LIM L.1"

With the keys  and  select the desired alarm

To view and adjust the alarm value, Press the key 

The digit that flashes is the one that can be modified by the keys  and 

To change digit, press the key 

When you have the desired alarm value, Press the key 

To return to the volume display, press the key 

Example: Tank of (alarm values factory setting by default) 12 000 liters

Alarm Very high	or	LIM L.4 : 95% ----->	11.40 m3
Alarm High	or	LIM L.3 : 90% ----->	10.80 m3
Alarm Low	or	LIM L.3 : 10% ----->	1.20 m3
Alarm Very low	or	LIM L.1 : 5% ----->	0.60 m3

PROCEDURE SETTING ANALOG OUTPUT TYPE

Unlock the display (see procedure unlocking programming)

When the display says "LIM L.1"

Press the key  until display "TYP.AO"

To view and adjust the analog output type, press the key 

To change the analog output type, press the key 

When the desired type of analog output is reached, press the key 

To return to the volume display, press the key 

SENSOR MOUNTING PRECAUTION

Place the sensor 1cm from the bottom of the tank.

Always place the cable above the junction box. The cable coming from the sensor should go into the top of the junction box, and the cable going to the display should come out from the bottom (mounting it vertically to avoid rising moisture in the sensor).

Minimum bending radius 120mm (fixed installation) against the wall (never leave the cable flat)

Do not compress the cable.

The end of the cable must end in a dry space, which prevents the formation of condensate. Ideally the cable should be brought directly into the connection space (electrical box).

If the cable is extended, pay attention to pressure compensation – moisture ingress must be avoided.

Do not cut the cable, do not bend it at 90°.

CONTACT

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