



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



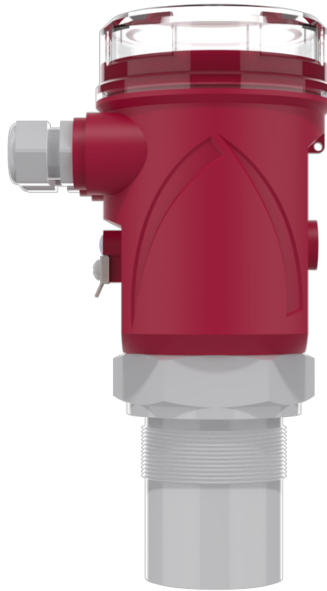
WEB APP &
DATALOGGING



ACCESSORIES

METER DATASHEET

ULTRASONIC LEVEL TRANSMITTER



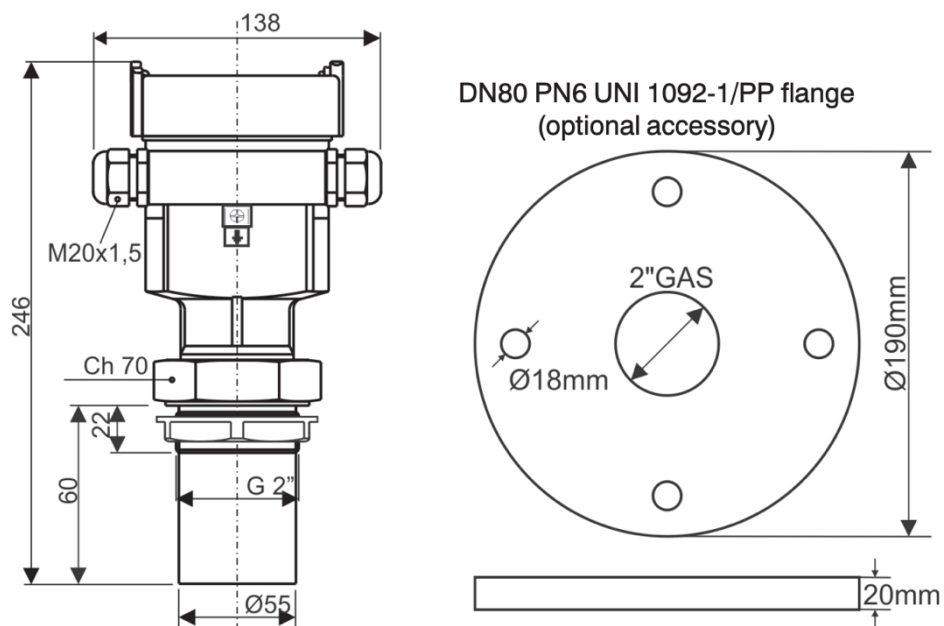
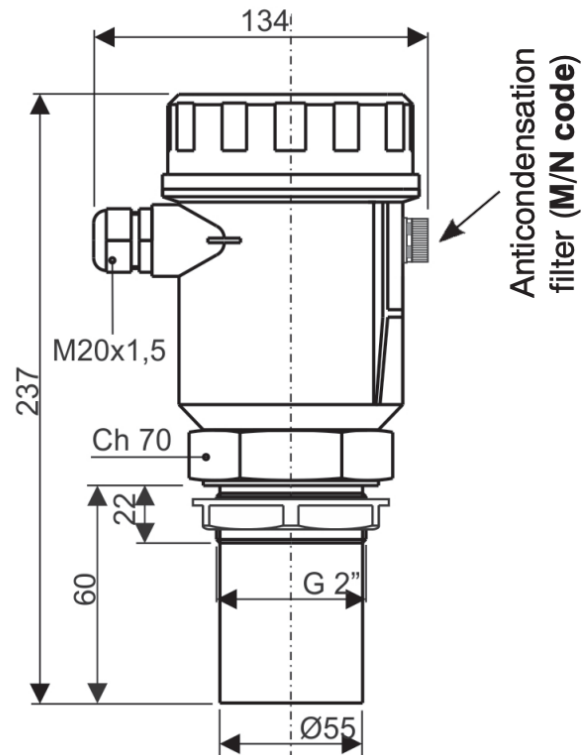
MAIN FEATURES

- Programming via a removable keypad/display module
- Level transmitter remains operational when module removed

TECHNICAL DATA

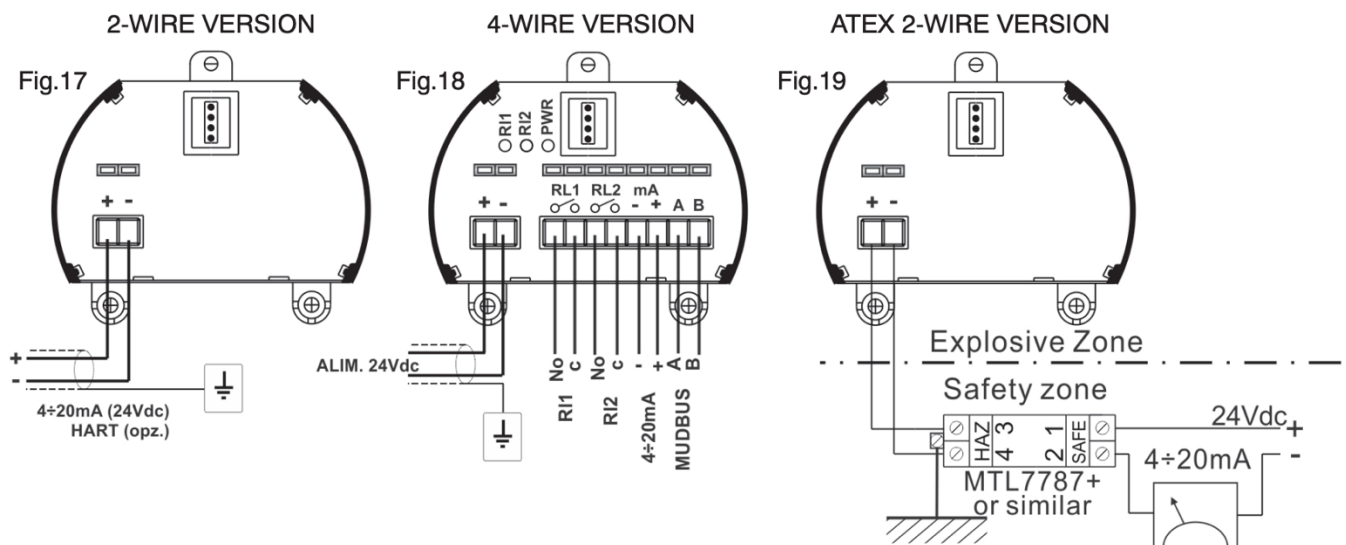
Measuring range	0.25...6 m ; max. 0.4...10 m (Distances expressed are valid for measurements of perfectly reflective surfaces, otherwise the maximum measurable distance is reduced)
Temp. compensation	Digital between -30...80°C
Accuracy	±0.2% (of the measured distance) but not less than ±3mm
Resolution	1 mm
Operating temperature	-30...70°C; 80°C non-continuous
Pressure	0.5...1.5 bar (absolute)
Programming/display	Removable module with 4 keys and dot matrix LCD (or via HART / Modbus RTU on request)
Housing material	PC o Al / PP o PVDF (ATEX certified versions only of PVDF)
Mechanical installation	2"GAS M (PP flange DN80 optional)
Protection grade	IP67
Power supply	24Vdc (20...30Vdc); 12Vdc (only 2 wires version)
Power consumption	2 wires version 0.6 W ; 4 wires version 1.5 W W
Analogue output	4...20mA, max 750ohm (4 wires version)
Output relays	Nr.2 - 3A 230Vac (n.a.) (only 4 wires version)
Digital communication	2 wires version (optional) HART ; 4 wires version Modbus RTU
Ex-proof	ATEX II 1/2G Ex ia II C T6

DIMENSIONS



CONNECTIONS WIRING

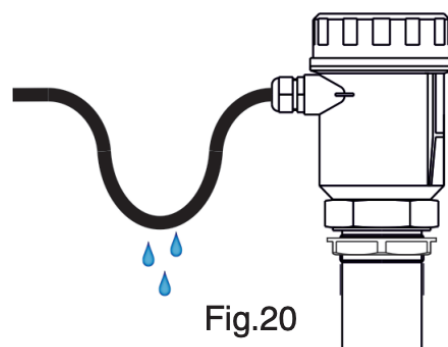
- 1) Separate the engine control cables or power cables from the METER connection cables.
- 2) Open the cap by unscrewing.
- 3) Lead the cables into the transmitter through the glands.
- 4) Do not use sleeves terminals, because they might interfere with the VL601 module insertion
- 5) Close the cap and tighten the cable glands.



HUMIDITY INFILTRATIONS

To avoid the humidity infiltration inside the housing is recommended:

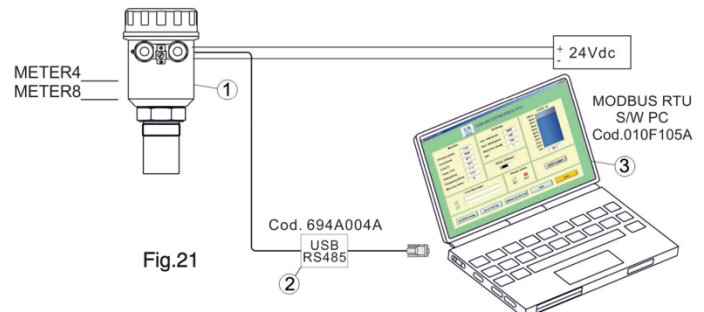
- For electrical connections, use a cable with a 6÷12mm outer diameter and fully tighten the M20 cable gland
- Fully tighten the cap
- Position the cable so that it forms a downward curve at the M20 output (Fig. 20); in this way the condensation and/or rain water will tend to drip from the curve bottom. For installations with a strong humidity/vapor presence the version with the optional anti-condensation filter (cod.M/N) is available



CONFIGURATION

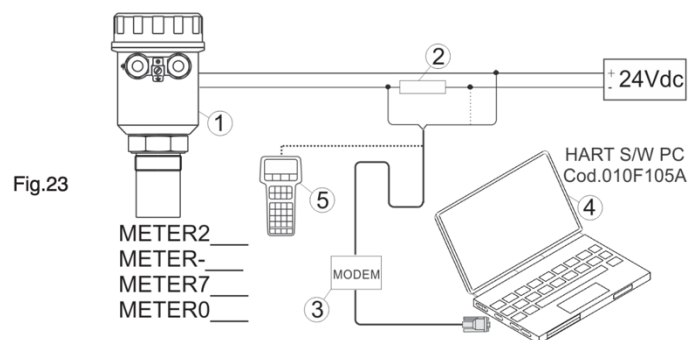
- 1) METER4____ or METER8____ (I) with MODBUS RTU communication protocol
- 2) USB/RS485 interface module, cod.694A004A
- 3) MODBUS RTU communication S/W, cod.010F105A (3), for METER transmitter
With this software is possible:

- Connect, by selecting the UID address, the METER transmitters in MODBUS RTU network
- Read on your PC monitor all measures in reading and METER operation data
- Programming all METER configuration parameters - storing on files, data logger function; METERmeasures in reading and operating states



VIA HART

- 1) METER-____, METER0____, METER2____, METER7____, with HART communication protocol
- 2) 250ohm resistance
- 3) HART MODEM
- 4) HART communication S/W, cod.010E105A (for PC HART MODEM only)
- 5) HART HAND-HELD



VIA HART

The VL60I programming module can be mounted and removed from the METER without affecting the unit operation.

Unscrewing the cap, the VL60I module can be mounted (by clockwise rotation until it clicks) or dismounted (by rotation counterclockwise) as shown in Fig.21. The VL60I module is equipped with matrix LCD.

