



The type 2260 is a rugged, high performance ultrasonic level measurement transmitter, having transducer and processing electronics and a display/programming unit incorporated in one single housing.

All type 2260 Level Transmitters are using established high end pulse echo transducers, which provide narrow beam angles and reliable measurement ranges up to a distance of 15 meters.

For small, stand alone tanks the transmitter provides a simple 2-wire 4 to 20 mA output, with additional power relay contacts. It can be programmed using push buttons and the large, graphic display. For large and/or multiple tank applications versions with HART interface are recommended, communicating directly with a panel mount controller or PLC. The HART protocol can easily be used for programming these versions.

## Features

- 2-wire compact transmitters
- Non-contact level metering
- Narrow 5° beam angle
- Level, volume and open channel flow
- Fully temperature compensated electronics
- Outstanding signal processing software providing highly accurate measuring results
- PP or PVDF sensor body provides best chemical resistance
- Quick-set menu for efficient installation
- Plug-in keypad and display
- Switching relay for high / low alarm
- 4 to 20 mA / HART interface (Optional)
- Secondary lightning protection
- Intrinsically safe (Option)
- 32-point linearization

**CE RoHS**

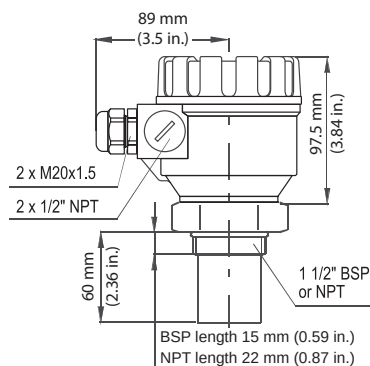
## Applications

- River water
- Seawater
- Potable water
- Demineralized water
- Treated water

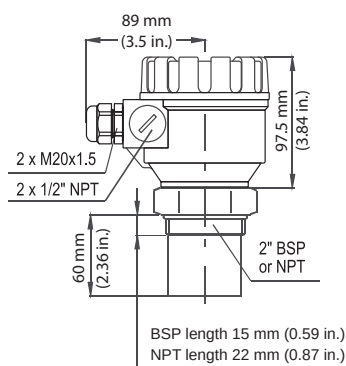
## Dimensions (mm)

### 2-wire level transmitters

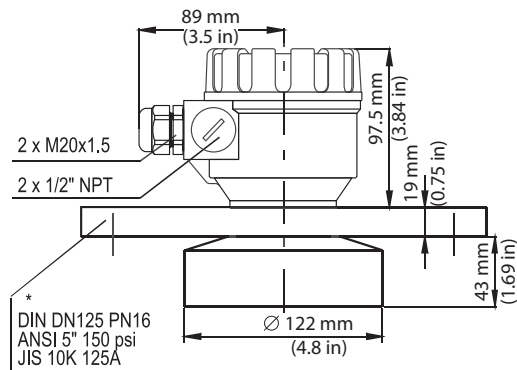
2260-Y-YYY-4



2260-Y-YYY-6



2260-Y-YYY-15



## Specifications

### General

| Type                | 2260-Y-YYY-4                                                                                                                                               | 2260-Y-YYY-6                | 2260-Y-YYY-15               |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| Range               | 0.2 to 4 m / 0.65 to 13 ft                                                                                                                                 | 0.25 to 6 m / 0.82 to 20 ft | 0.45 to 15 m / 1.5 to 49 ft |
| Measuring Frequency | 80 kHz                                                                                                                                                     | 80 kHz                      | 40 kHz                      |
| Total Beam Angle    | 6°                                                                                                                                                         | 5°                          | 5°                          |
| Accuracy *          | ± (0.2 % of measured distance plus 0.05 % of range)                                                                                                        |                             |                             |
| Resolution          | <2 m (6.6 ft): 1 mm (0.04 in.), 2 to 5 m (6.6 to 16.4 ft): 2 mm (0.08 in.), 5 to 10 m (16.4 to 32.8 ft): 5 mm (0.2 in.), >10 m (32.8 ft): 10 mm (0.39 in.) |                             |                             |

### Environmental

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| Process Temperature         | -30 °C to +90 °C (-22 °F to + 194 °F)              |
| Ambient Temperature         | -25 °C to +70 °C (-13 °F to + 158 °F)              |
| Process Pressure (absolute) | 0.03 to 0.3 MPa (0.3 to 3 bar) 4.35 psi - 43.5 psi |

### Enclosure

#### Enclosure Material

|                    |                  |              |                       |
|--------------------|------------------|--------------|-----------------------|
| Sensor Body        | PP or PVDF       |              |                       |
| Housing            | PBT              |              |                       |
| Ingress Protection |                  |              |                       |
| Sensor             | IP68             |              |                       |
| Housing            | IP67             |              |                       |
| Process Connection | 1 1/2" BSP / NPT | 2" BSP / NPT | DN125 / 5 inch flange |

#### Sealing

|             |             |
|-------------|-------------|
| PP sensor   | EPDM        |
| PVDF sensor | FPM (Viton) |

### Electrical

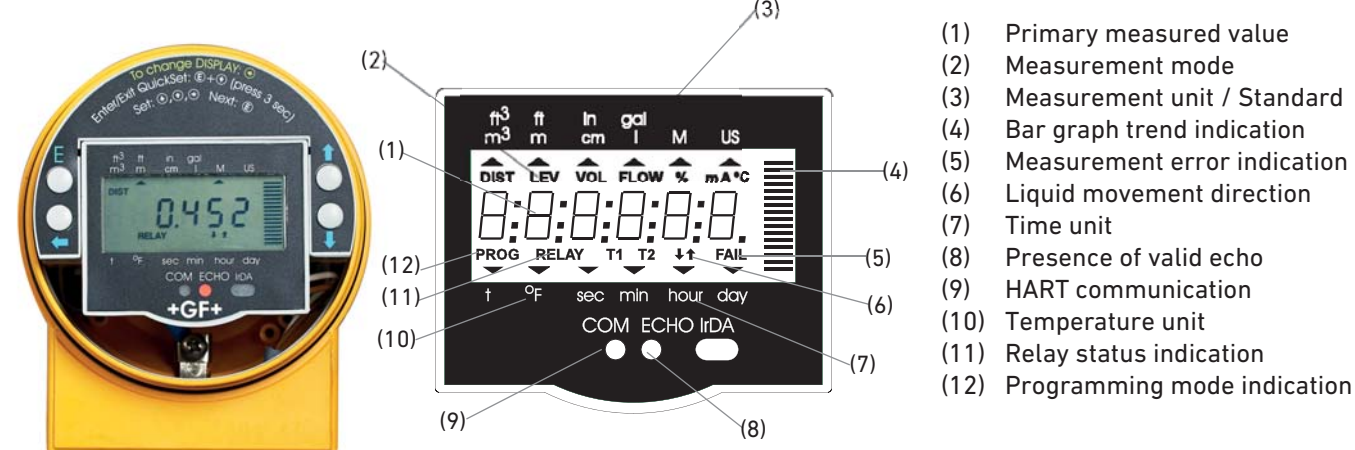
|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Outputs           | 2-wire 4–20 mA , max. 600 Ohm; HART interface, Rt >= 250 Ohm Ω |
| Relay             | (SPDT) 250V AC, 3A AC1                                         |
| Power Supply      | 12 to 36 V DC / 44 to 800 mW                                   |
| Power Consumption | DC 3.6 W, AC 4 VA                                              |
| Connection        | 2 x M20x1,5 plastic cable gland: Cable: Ø6 ... 12 mm           |

### Standards and Approvals

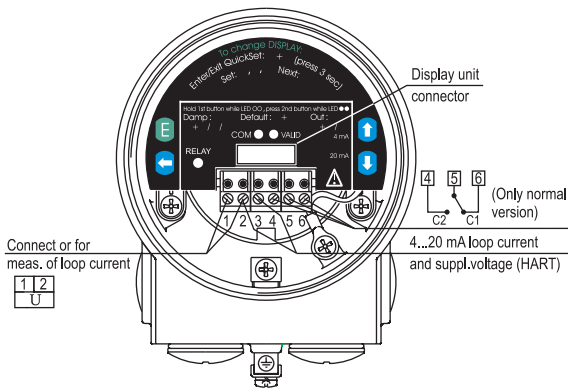
|                   |          |
|-------------------|----------|
| General Approvals | CE, RoHS |
|-------------------|----------|

\* Under optimal circumstances of reflection and stabilized transducer temperature

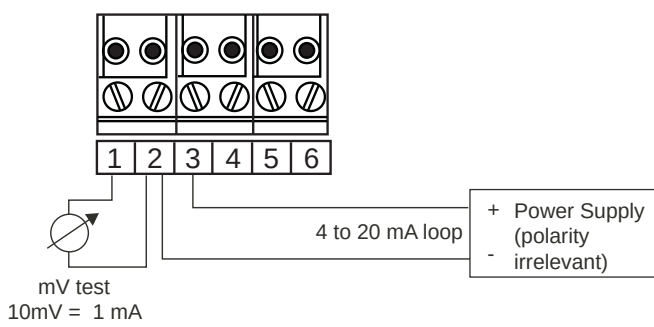
# Display Unit



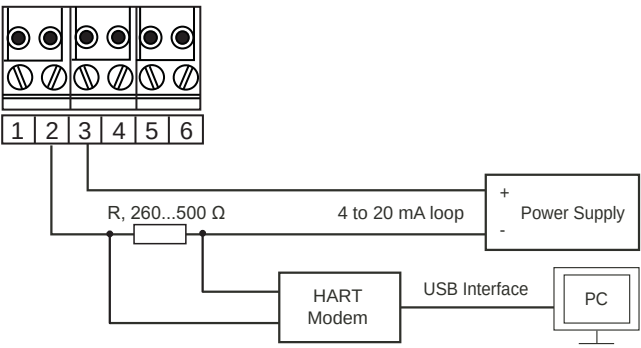
## 2260 Transmitter Terminals



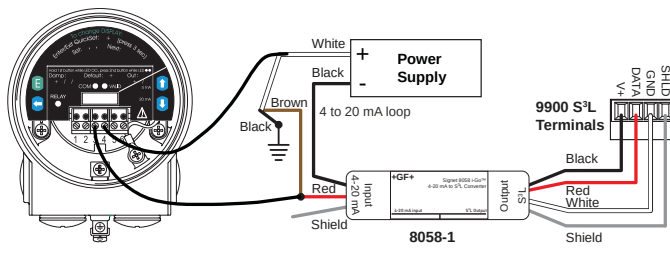
## 4 to 20 mA Loop Wiring



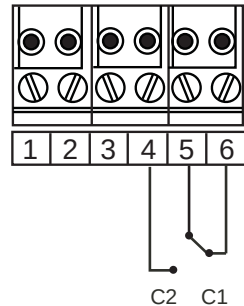
## HART Interface Wiring



## Wiring to 9900 Universal Transmitter



## Relay Output Wiring



## Ordering Information

| Mfr. Part No                                  | Code               | Description                                                                    |
|-----------------------------------------------|--------------------|--------------------------------------------------------------------------------|
| 2260-P-0DN-4                                  | <b>159 300 120</b> | Range 4 m (13.1 ft), PP body, 4..20 mA 2-wire, NPT thread                      |
| 2260-P-2DN-4                                  | <b>159 300 121</b> | Range 4 m (13.1 ft), PP body, 4..20 mA 2-wire/relay/HART, NPT thread           |
| 2260-P-0DN-6                                  | <b>159 300 122</b> | Range 6 m (19.7 ft), PP body, 4..20 mA 2-wire, NPT thread                      |
| 2260-P-2DN-6                                  | <b>159 300 123</b> | Range 6 m (19.7 ft), PP body, 4..20 mA 2-wire/relay/HART, NPT thread           |
| 2260-P-0DA-15                                 | <b>159 300 124</b> | Range 15 m (49.2 ft), PP body, 4..20 mA 2-wire, ANSI Flange 5 inch             |
| 2260-P-2DA-15                                 | <b>159 300 125</b> | Range 15 m (49.2 ft), PP body, 4..20 mA 2-wire/relay/HART, ANSI Flange 5 in.   |
| 2260-V-0DN-4                                  | <b>159 300 131</b> | Range 4 m (13.1 ft), PVDF body, 4..20 mA 2-wire, NPT thread                    |
| 2260-V-2DN-4                                  | <b>159 300 132</b> | Range 4 m (13.1 ft), PVDF body, 4..20 mA 2-wire/relay/HART, NPT thread         |
| 2260-V-0DN-6                                  | <b>159 300 133</b> | Range 6 m (19.7 ft), PVDF body, 4..20 mA 2-wire, NPT thread                    |
| 2260-V-2DN-6                                  | <b>159 300 134</b> | Range 6 m (19.7 ft), PVDF body, 4..20 mA 2-wire/relay/HART, NPT thread         |
| 2260-V-0DA-15                                 | <b>159 300 135</b> | Range 15 m (49.2 ft), PVDF body, 4..20 mA 2-wire, ANSI Flange 5 inch           |
| 2260-V-2DA-15                                 | <b>159 300 136</b> | Range 15 m (49.2 ft), PVDF body, 4..20 mA 2-wire/relay/HART, ANSI Flange 5 in. |
| <b>Versions with NPT thread / ANSI flange</b> |                    |                                                                                |
| 2260-V-1DNX-4                                 | <b>159 300 142</b> | Range 4 m (13.1 ft), PVDF body, 4..20 mA 2-wire/HART, ATEX, NPT thread         |
| 2260-V-1DNX-6                                 | <b>159 300 143</b> | Range 6 m (19.7 ft), PVDF body, 4..20 mA 2-wire/HART, ATEX, NPT thread         |
| 2260-V-1DAX-15                                | <b>159 300 144</b> | Range 15 m (49.2 ft), PVDF body, 4..20 mA 2-wire/HART, ATEX, ANSI Flange 5 in. |

## Ordering Information

| Mfr. Part No                                 | Code               | Description                                                                     |
|----------------------------------------------|--------------------|---------------------------------------------------------------------------------|
| <b>Versions with BSP thread / DIN flange</b> |                    |                                                                                 |
| 2260-V-1DBX-4                                | <b>159 300 112</b> | Range 4 m (13.1 ft), PVDF body, 4 to 20 mA 2-wire/HART, ATEX, BSP thread        |
| 2260-V-1DBX-6                                | <b>159 300 113</b> | Range 6 m (19.7 ft), PVDF body, 4 to 20 mA 2-wire/HART, ATEX, BSP thread        |
| 2260-V-1DFX-15                               | <b>159 300 114</b> | Range 15 m (49.2 ft), PVDF body, 4 to 20 mA 2-wire/HART, ATEX, DIN Flange DN125 |

## Accessories

| Code               | Description                            |
|--------------------|----------------------------------------|
| <b>159 300 181</b> | HART - USB Modem                       |
| <b>159 300 182</b> | HART - USB Modem, DIN Rail             |
| <b>159 300 183</b> | HART - USB Modem, DIN Rail, ATEX       |
| <b>159 300 180</b> | Display unit for type 2260 Transmitter |