

Type 2260 Ultrasonic Level Transmitters



Product description

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 m (49.2 ft).

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 (Optional)
- 32-point linearization



Applications

- Water Treatment
- Corrosive Industrial Waste Treatment
- Filling
- Batching
- Bulk Transfer
- Dirty Liquids



www.gfps.com/level

Specifications

General

Type	2260-Y-YYY-4	2260-Y-YYY-6	2260-Y-YYY-8	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	0.35 to 8 m / 1.1 to 26 ft	0.45 to 15 m / 1.5 to 49 ft
Measuring Frequency	80 kHz	80 kHz	50 kHz	40 kHz
Total Beam Angle	6°	5°	7°	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 NEMA 6P Equivalent
Housing	IP67 NEMA 6 Equivalent

Process Connection	1 ½ in. BSP / NPT	2 in. BSP / NPT	2 in. BSP / NPT	DN125 / 5 in. flange
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Sealing

PP sensor	EPDM
PVDF sensor	FKM

Electrical

Outputs	2-wire 4–20 mA , max. 600 Ohm; HART interface, Rt ≥ 250 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

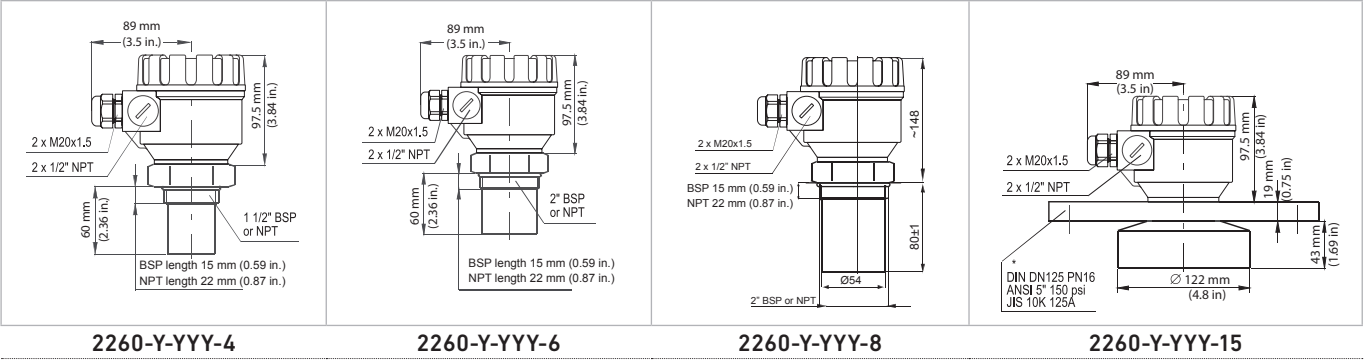
Standards and Approvals

General Approvals	CE, UKCA, RoHS
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* Under optimal circumstances of reflection and stabilized transducer temperature

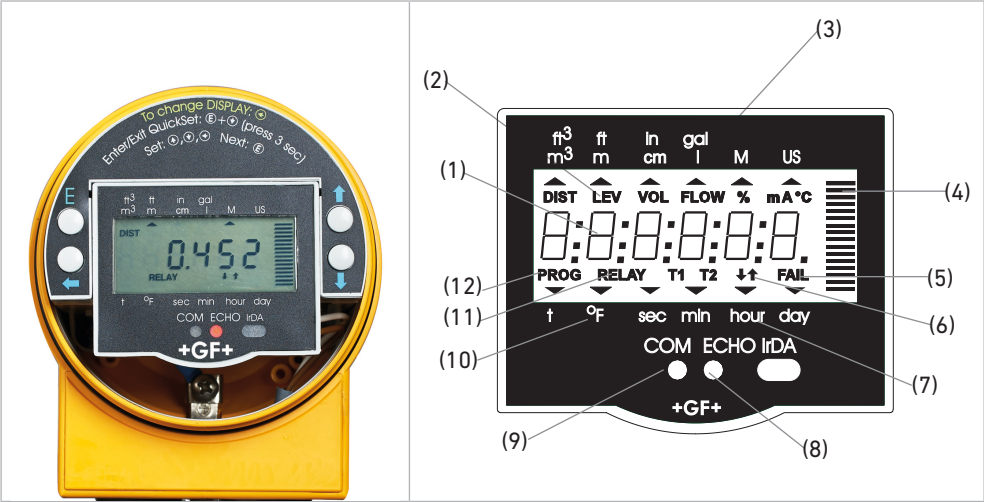
Dimensions (mm)

2-wire level transmitters



System Overview

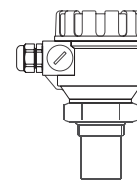
Display Unit



- (1) Primary measured value
- (2) Measurement mode
- (3) Measurement unit / Standard
- (4) Bar graph trend indication
- (5) Measurement error indication
- (6) Liquid movement direction
- (7) Time unit
- (8) Presence of valid echo
- (9) HART communication
- (10) Temperature unit
- (11) Relay status indication
- (12) Programming mode indication

Ordering Information

Mfr. Part No	Code	Description
2260-P-0DN-4	159 300 120	Range 4 m (13.1 ft), PP body, 4..20 mA 2-wire, NPT thread
2260-P-2DN-4	159 300 121	Range 4 m (13.1 ft), PP body, 4..20 mA 2-wire/relay/HART, NPT thread
2260-P-0DN-6	159 300 122	Range 6 m (19.7 ft), PP body, 4..20 mA 2-wire, NPT thread
2260-P-2DN-6	159 300 123	Range 6 m (19.7 ft), PP body, 4..20 mA 2-wire/relay/HART, NPT thread
2260-P-0DN-8	159 300 109	Range 8 m (26.2 ft), PP body, 4..20 mA 2-wire, NPT thread
2260-P-0DA-15	159 300 124	Range 15 m (49.2 ft), PP body, 4..20 mA 2-wire, ANSI Flange 5 inch
2260-P-2DA-15	159 300 125	Range 15 m (49.2 ft), PP body, 4..20 mA 2-wire/relay/HART, ANSI Flange 5 in.
2260-V-0DN-4	159 300 131	Range 4 m (13.1 ft), PVDF body, 4..20 mA 2-wire, NPT thread
2260-V-2DN-4	159 300 132	Range 4 m (13.1 ft), PVDF body, 4..20 mA 2-wire/relay/HART, NPT thread
2260-V-0DN-6	159 300 133	Range 6 m (19.7 ft), PVDF body, 4..20 mA 2-wire, NPT thread
2260-V-2DN-6	159 300 134	Range 6 m (19.7 ft), PVDF body, 4..20 mA 2-wire/relay/HART, NPT thread
2260-V-0DN-8	159 300 110	Range 8 m (26.2 ft), PVDF body, 4..20 mA 2-wire, NPT thread
2260-V-0DA-15	159 300 135	Range 15 m (49.2 ft), PVDF body, 4..20 mA 2-wire, ANSI Flange 5 inch
2260-V-2DA-15	159 300 136	Range 15 m (49.2 ft), PVDF body, 4..20 mA 2-wire/relay/HART, ANSI Flange 5 in.
Versions with BSP thread / DIN flange		
2260-P-0DB-4	159 300 090	Range 4 m (13.1 ft), PP body, 4..20 mA 2-wire, BSP thread
2260-P-2DB-4	159 300 091	Range 4 m (13.1 ft), PP body, 4..20 mA 2-wire/relay/HART, BSP thread
2260-P-0DB-6	159 300 092	Range 6 m (19.7 ft), PP body, 4..20 mA 2-wire, BSP thread
2260-P-2DB-6	159 300 093	Range 6 m (19.7 ft), PP body, 4..20 mA 2-wire/relay/HART, BSP thread
2260-P-0DB-8	159 300 107	Range 8 m (26.2 ft), PP body, 4..20 mA 2-wire, BSP thread
2260-P-0DF-15	159 300 094	Range 15 m (49.2 ft), PP body, 4..20 mA 2-wire, DIN Flange DN125
2260-P-2DF-15	159 300 095	Range 15 m (49.2 ft), PP body, 4..20 mA 2-wire/relay/HART, DIN Flange DN125
2260-V-0DB-4	159 300 101	Range 4 m (13.1 ft), PVDF body, 4..20 mA 2-wire, BSP thread
2260-V-2DB-4	159 300 102	Range 4 m (13.1 ft), PVDF body, 4..20 mA 2-wire/relay / HART, BSP thread
2260-V-0DB-6	159 300 103	Range 6 m (19.7 ft), PVDF body, 4..20 mA 2-wire, BSP thread
2260-V-2DB-6	159 300 104	Range 6 m (19.7 ft), PVDF body, 4..20 mA 2-wire/relay / HART, BSP thread
2260-V-0DB-8	159 300 108	Range 8 m (26.2 ft), PVDF body, 4..20 mA 2-wire, BSP thread
2260-V-0DF-15	159 300 105	Range 15 m (49.2 ft), PVDF body, 4..20 mA 2-wire, DIN Flange DN125
2260-V-2DF-15	159 300 106	Range 15 m (49.2 ft), PVDF body, 4..20 mA 2-wire/relay/HART, DIN Flange DN125

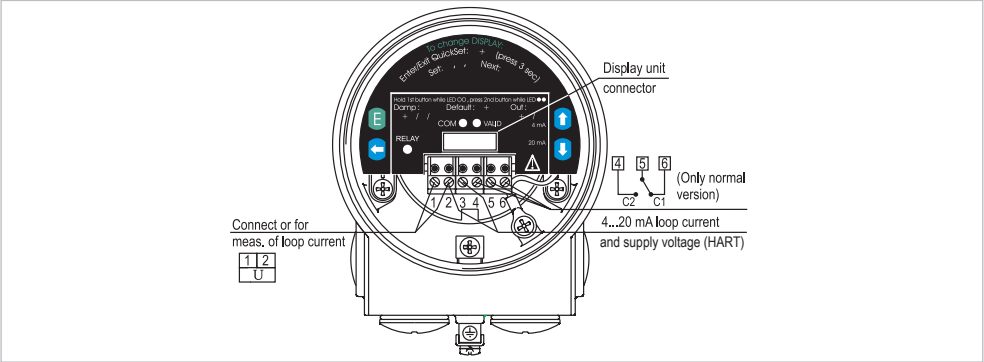


Accessories

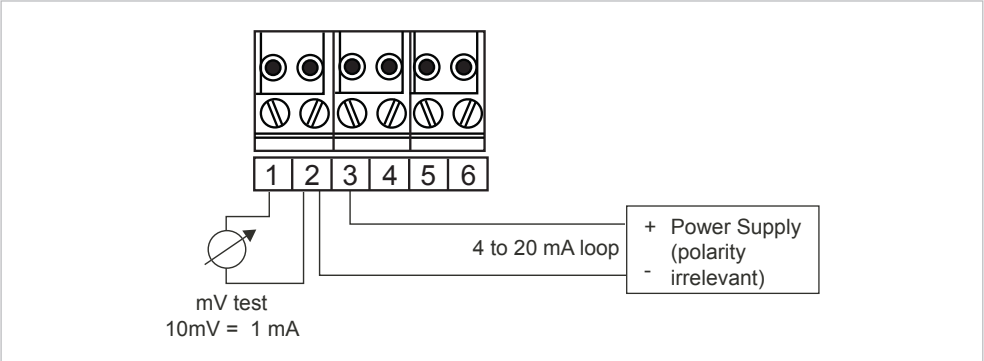
Code	Description
159 300 208	HART - USB Modem
159 300 182	HART - USB Modem, DIN Rail
159 300 180	Display unit for type 2260 Transmitter

Wiring

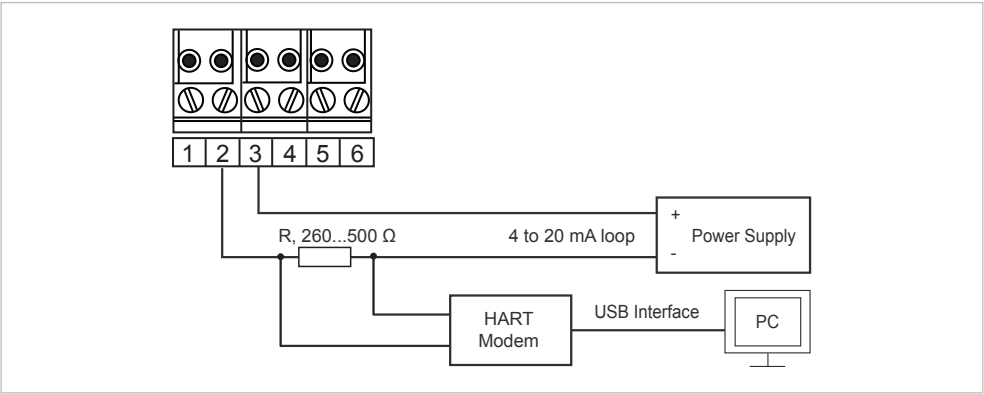
2260 Transmitter Terminals



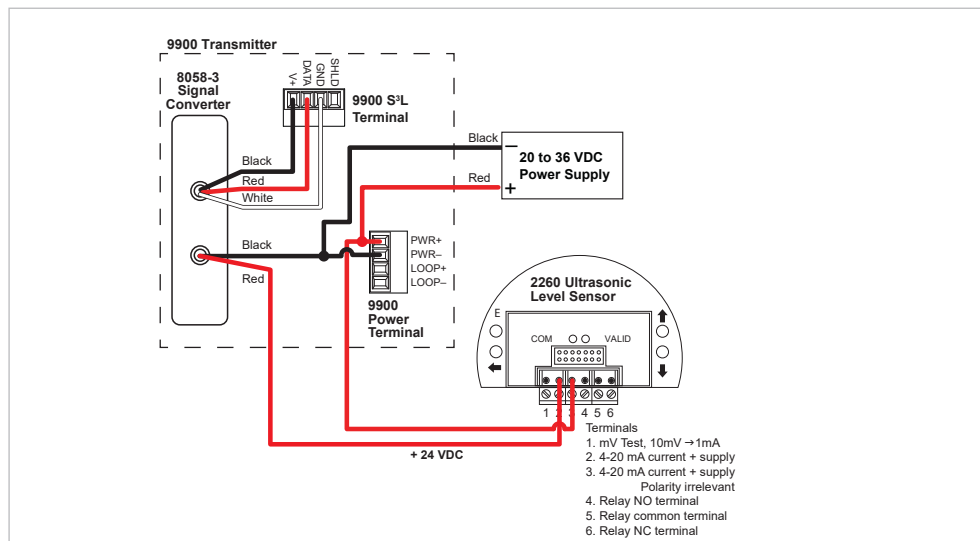
4 to 20 mA Loop Wiring



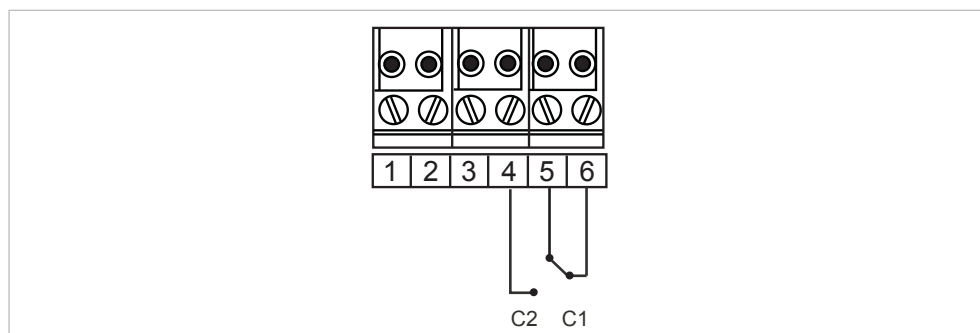
HART Interface Wiring



Wiring to 9900 Universal Transmitter



Relay Output Wiring



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