

4560 Servo Monitor

For tank side monitoring and controlling of 6000 Series Servo Tank Gauge

Varec®

Application

The 4560 Servo Monitor (SGM) is a monitoring unit for use with the Proservo series of tank gauges. Mounted at the tank side or up to 1200 metres away (Local HART connection). Promonitor provides indication of measured level, temperature data and operating status, and can send operating commands to the 6000 series Servo Tank Gauges (STG) from a convenient location.

Features

- Remote monitoring and control for Proservo tank gauge
- Indication via two line illuminated display
- Operation via three optical keys (touch control) and user friendly programming matrix
- Multi-language text (English, German, Italian, French or Japanese)
- Robust IP 67 housing
- Explosion proof for hazardous area mounting



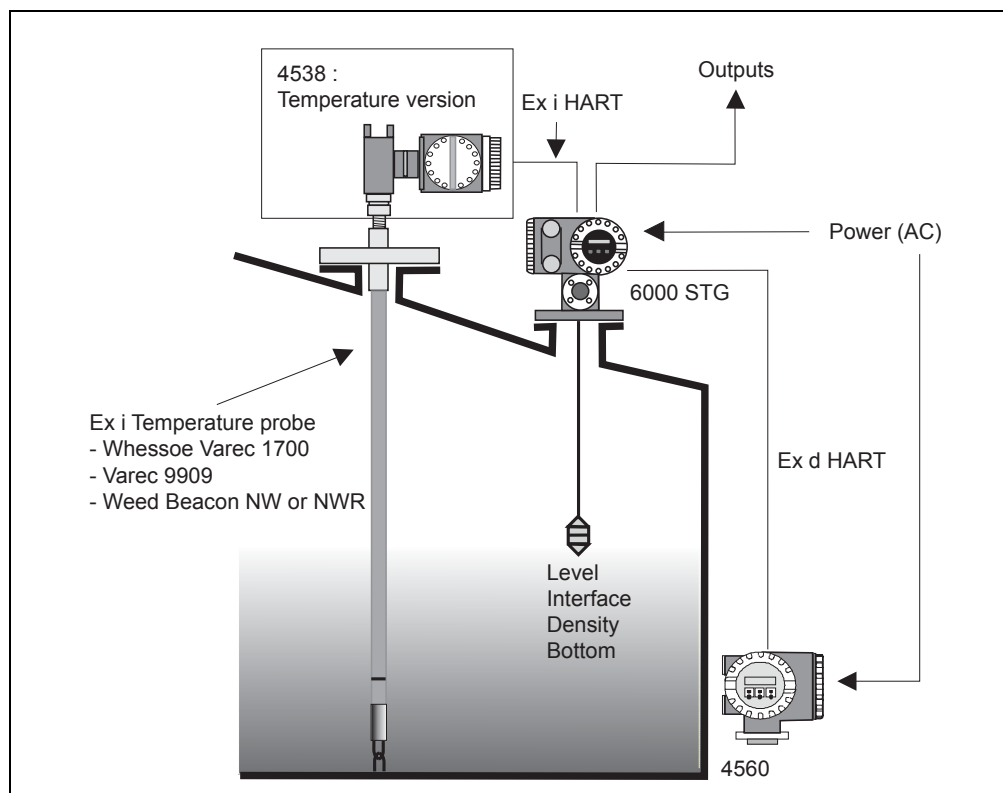
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Function and System Design

Measuring System

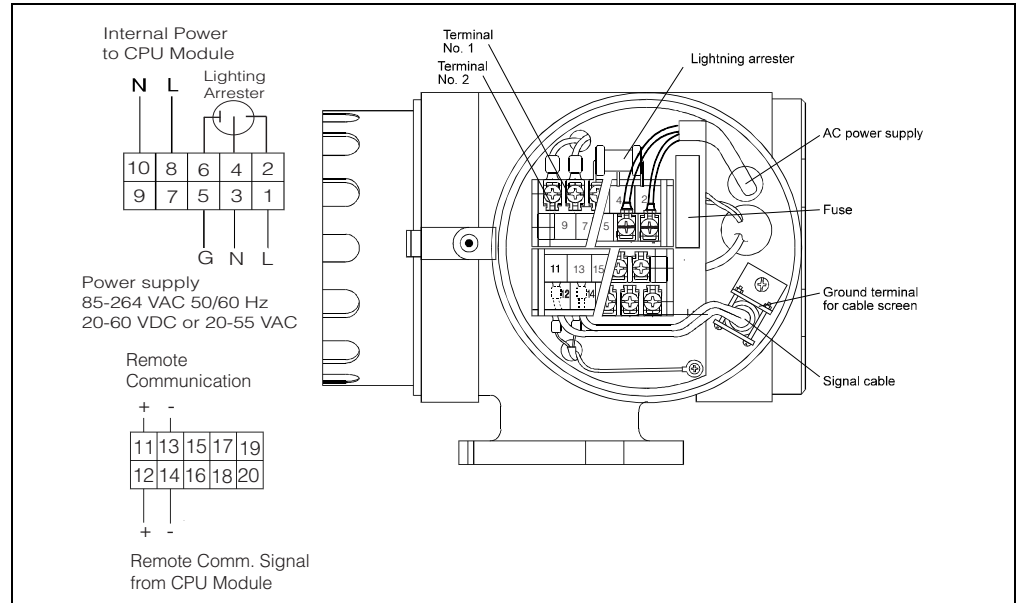
4560 Servo Monitor (SGM) is a simple low cost tank side monitor for displaying primary tank gauging data from the 6000 STG. Operation of the 6000 STG can also be performed using the 3 optical keys (touch control) on the 4590 Tank Side Monitor (TSM).

Local HART Protocol (two wire) is used for data transmission between 6000 STG and 4560 SGM.

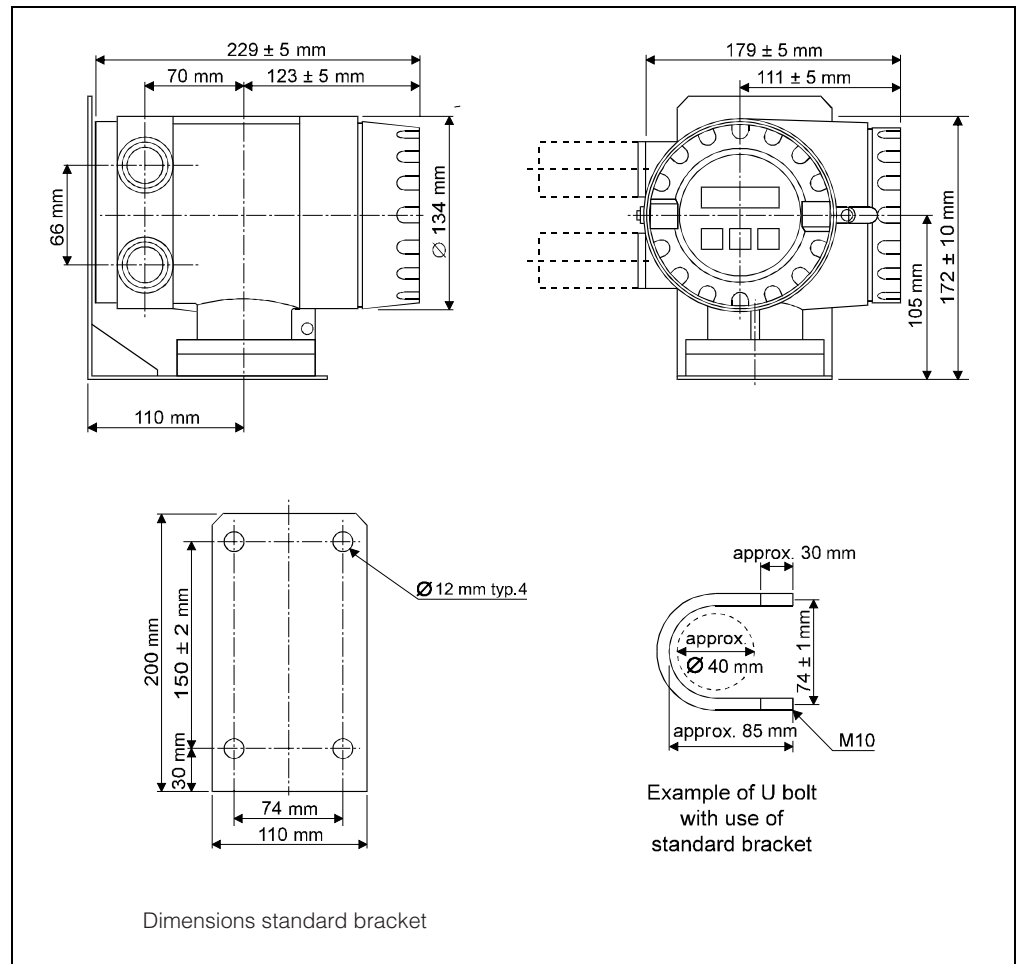


Installation

Electrical Connections



Dimensions



Configuration

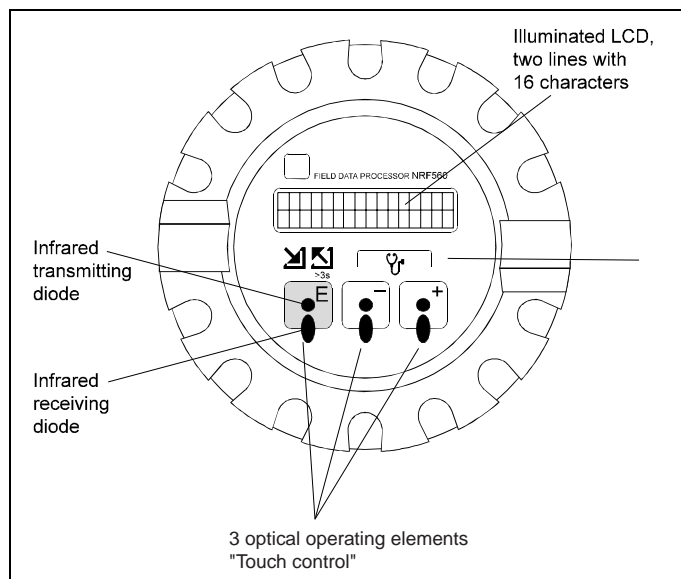
Display and Operation

4560 SGM has a two line illuminated Liquid Crystal Display (LCD) and utilizes touch control to help initiate operation and select data indication from the Proservo. Mounted within a flameproof enclosure, touch control ensures safe operation even at hazardous areas. Two display modes are available for indication of level and temperature*.

Operating commands to the Proservo are available as below:

- Level measurement
- Displacer hoist
- Interface level measurement (two interfaces can be measured)
- Specific gravity measurement of each product layer
- Tank Bottom

Note! Measured data onto Promonitor display are available level and temperature only!



Technical Data

General Specification	Manufacturer Designation Function	Varec, Inc. 4560 Servo Monitor
Input Characteristics	Signal	Local HART protocol
Display / Programming	Display	Two lines 16 digits illuminated display language selectable English and Japanese
	Programming	3 optical keys for selection of matrix functions (touch control)
Power Supply	Power Supply	85 – 264 VAC 50/60 Hz or 20–60 VDC / 20–55 VAC
	Power Consumption	For AC power supply: 40 VA For DC power supply: 40 W
Certification	Explosion Proof	EEx d IIC T4, CENELEC Ex d IIB T4, TIIS XP Class1, Div.1, Gp.ABCD, FM Class1, Div.1, Gp.ABCD, CSA EEx d IIC T4, ATEX
Environmental Conditions	Ambient Temp. Protection	–20...+60°C IP67 with closed housing and cable glands of same protection class
	Housing: material & weight	Aluminum coated with anti-acid paint. Approx. 6.5 kg
	Electromagnetic compatibility	Immunity and emission to EN 50082–1,2

Order Codes

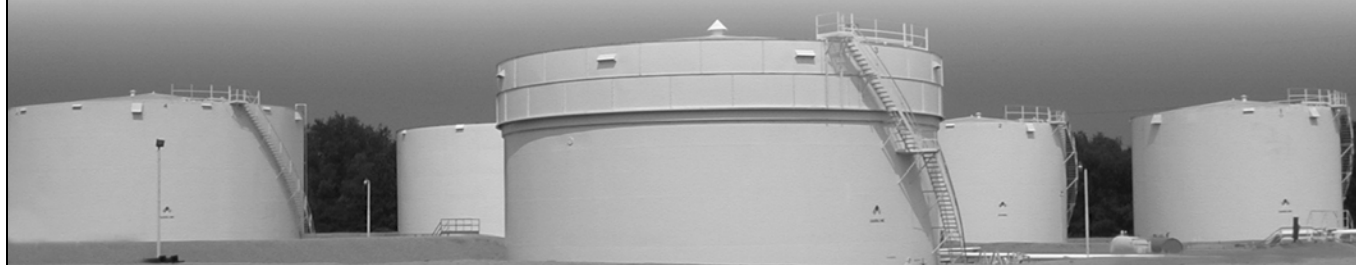
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Protection Class		
0	IP67 / NEMA 4X / IP67 Type 4X	
1	Ex d IIB T4 TIIS	
2	2 EEx d IIC T4 CENELEC	
4	XP Class I, Div. 1, Gp. ABCD (FM)	
5	Class I, Div. 1, Gp. ABCD (CSA)	
7	EEx d IIC T4, ATEX	
9	Special version	
Cable Entry		
A	Two G(PF) 1/2" thread	
B	Two NPT 1/2" thread	
C	Two PG16 thread	
D	Two M20 thread	
Y	Special version	
Power Supply		
3	High voltage type:85-264 VAC,50/60 Hz	
4	Low voltage type:20-60 VDC/20-55VAC,50/60 Hz	
9	Special version	
Mounting Bracket		
0	None	
1	With mounting bracket	
9	Special version	
Painting		
0	Standard (Blue)	
9	Special version	
Product designation		

NRF 560

Your official representative

Varec®



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