

ENL :

(ELECTRO PNEUMATIC TYPE TANK LEVEL GAUGING SYSTEM)

Operating Principle

The operating principle is based on the measuring the hydrostatic pressure by providing constant low flow of air into a sounding pipe which opened at the tank bottom. When air is discharged through the sounding pipe opening at the tank bottom, the air pressure corresponding to the liquid (depends on specific gravity) level will be built up in the sounding pipe and calculate the distance from the pipe opening to the surface of liquid. The pneumatic signal in the pipe is delivered to P/I Converter that converts pneumatic input signal to 4~20mA output signal. This electric signal 4~20mA can be connected to integrated Techcross BWMS monitoring system, loading computer, digital / analog type indicators to display the actual level.

Technical Specification

Flow rating	6~80 Nℓ/h (N : 0°C, 1atm)			
Operating temperature range	-25 ~ 85 °C			
Supply air setting pressure	4.5 kg/cm ²			
Signal line size	OD 8mm, 10mm			
Output	4~20mA 2 wire system			
Accuracy	±0.2% of full span			
Power supply	12~36 V DC			
Measuring range	0~0.4 bar	0~1 bar	0~2 bar	0~3.5 bar
Materials	Air purge head : SUS316L			
Easy setting	HHT Controller (output, tank height, specific gravity, unit, etc.)			

Applications

- Ballast tank remote reading
- Draft, heeling and trim remote reading
- Fuel oil tank remote reading

Features

- Simple configuration & installation
- HHT (Hand-Held Terminal) for calibration by ship crew
- Accuracy for compliance
- Compatibility for retrofits
- Ex-proof is not required

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System Diagram

