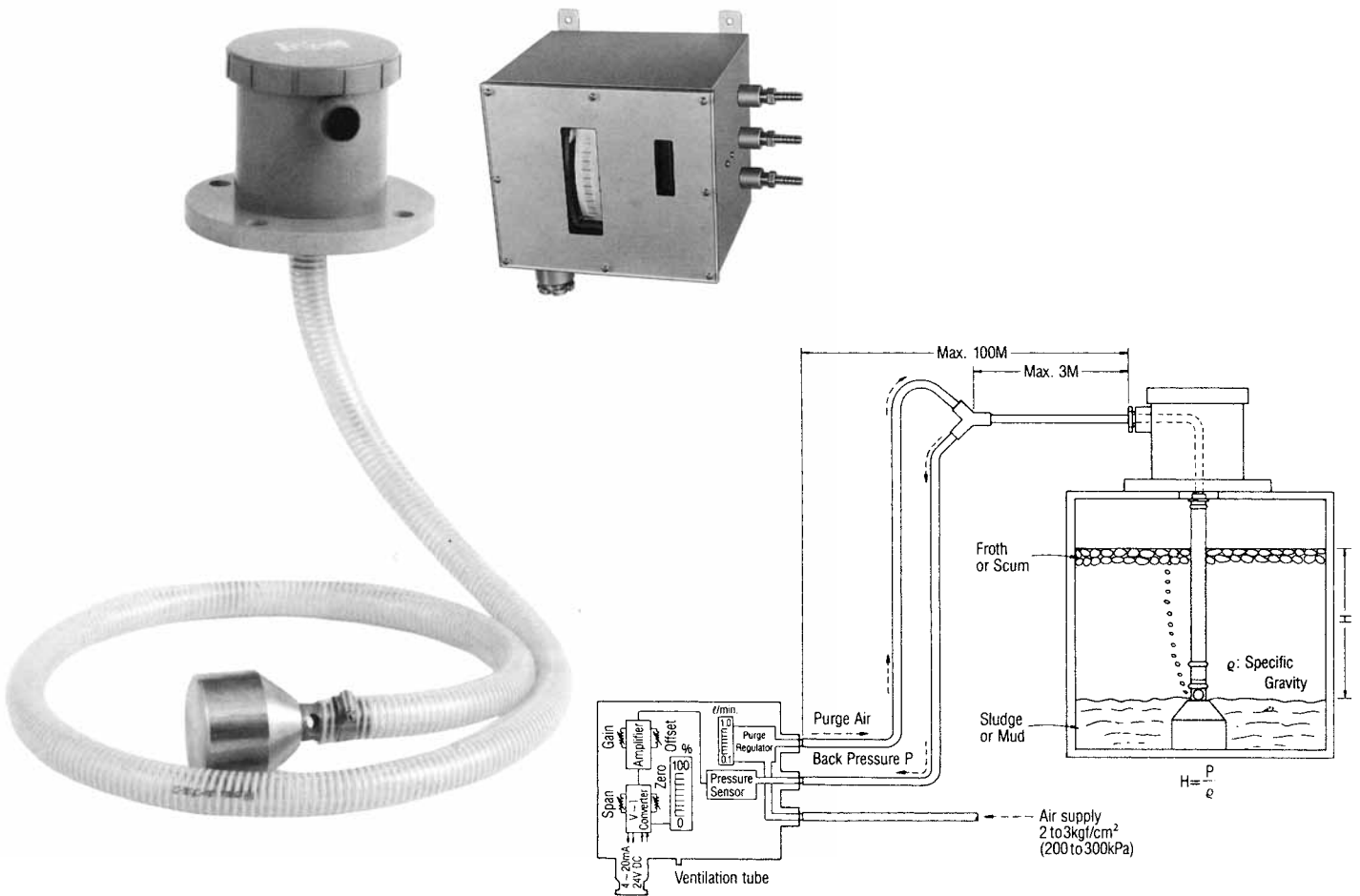


MODEL LA AIR BUBBLER LEVEL MEASUREMENT SYSTEM



Features

- Can be used with highly viscous liquids
- 4 to 20mA output
- On site or remote displays
- Easy maintenance
- No moving parts

Application

The LA is ideal for measuring drainage, night soil or sewage water with high viscosity and suspended solids.

General Description

The LA series air bubbler is simple and proven level measurement system for dirty wastewater treatment. The bubble tube is the only component in contact with the liquids.

The control unit consists of pressure elements, a needle valve, V/I converter and indicator. Even if sludge or suspended solids become clogged in the bubble tube, they can be blown out by operating the bypass valve. There are two kinds of bubble tube, an easily installed flexible PVC hose and a 304SS pipe which can withstand high temperature.

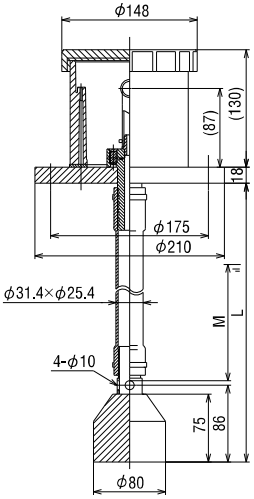
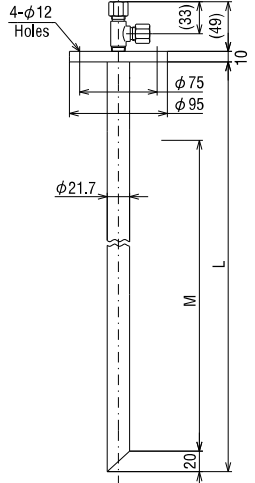
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Operational Description

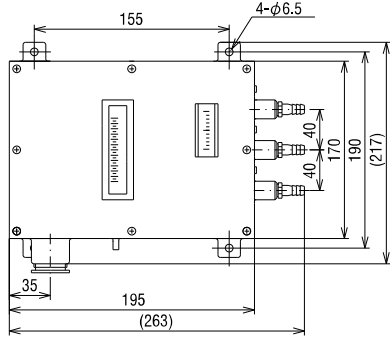
The LA system operates by bubbling a small flow of air from a submerged dip tube and then measuring the resulting air back pressure. Pressure increases proportion to depth of measured liquid until air is forced out the bottom. At this point, pressure stabilizes and the pressure is measured by the control unit. The pressure signal is converted to 4-20mA DC output. The field indicator is provided by the converter.

Specifications

Sensor

Model		LA100	LA110
Drawing			
Mounting		JIS10K100A (4 holes)	JIS5K25A
Material	Housing	PVC	304SS
	Wetted Part	PVC tube	304SS pipe
	Weight	304SS	
Piping		Hose nipple for dia 8	Ring joint for dia 8
Hose Entry		G3/4	

Converter

Model		LA1000
Drawing		
Measuring Range		0 to 10 meter
Supply Power		24V ±2V DC
Power Consumption		Approx. 1W Max.
Output Signal		4 to 20mA DC
Load Resistance		800 Ω Max.
Operating Temperature		0 to 50°C
Accuracy		0.5% F.S.
Material	Housing	CS plate
	Pipe fitting	Brass
Protection		IP23
Pressure supply		200 to 300 kPa
Piping		Hose nipple for dia 8
Cable entry		G3/4