

Installation Tips

Gauger420 – Tanks

1) Choosing location

Distance to tank walls	<u>MUST BE</u>	at least 30cm from walls + 10cm/1m range
Surface	<u>MUST BE</u>	fixed on a horizontal surface
Acoustic noises	<u>MUST BE</u>	far away from acoustic noises and vibrations
Electrical interference	<u>MUST BE</u>	shielded away from power and sensor cables
Tank installation	<u>MUST BE</u>	far away from tank inlets, outlets, physical obstacles
Sensor	<u>MUST BE</u>	exactly perpendicular to the surface of the target
External thermistor	<u>MUST BE</u>	in shaded and rain protected location, attached to the tank body in sun-exposed installations

2) Handling dead zone

Extension pipes (1)	<u>MUST BE</u>	of at least 3" internal diameter and 15 cm long (from sensor low edge to pipe low edge)
Extension pipes (2)	<u>MUST BE</u>	with completely smooth interior surface
Extension pipes (3)	<u>MUST BE</u>	installed with a flange/not protruding into the tank

3) Power source

Voltage	<u>MUST BE</u>	at least 12VDC on unit terminals and 33VDC max
Ripple and noise	<u>MUST BE</u>	not exceeding 100mV
Type	<u>MUST BE</u>	preferably regulated switching PS

4) Measurement Configuration

Full/Empty, Level/Distance	<u>MUST BE</u>	configured correctly
Filling rate	<u>MUST BE</u>	defined (consider the application)
False echo scan	<u>MUST BE</u>	executed when the tank is empty in cases of tank internal interruption
Near blocking distance (NBD)	<u>MUST BE</u>	set up in flange and extension pipe installations

5) Configuration

4mA & 20mA (TWOW)	<u>MUST BE</u>	configured correctly
Error state (TWOW)	<u>MUST BE</u>	configured correctly
Tank shape and dimensions	<u>MUST BE</u>	defined

6) Mechanical Constrains

Interfacing cables	<u>MUST BE</u>	round and fitted to glands diameters
Glands	<u>MUST BE</u>	tightened well
Top cover	<u>MUST BE</u>	tightened well
Rotation axis	<u>MUST BE</u>	avoided from excessive rotation (limited to 350°)

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