

Overview

The **TxUL30** integrated ultrasonic level meter provides safe, clean, non-contact level measurement with high precision, long service life and stable performance. Its intelligent acoustic-wave processing effectively rejects interference signals, while a built-in LCD shows level, distance and the echo curve on site. All input and output lines are protected against lightning and short circuits, and the meter is easy to install and maintain.

TxUL30

Ultrasonic Level Meter



Applications

- Water supply tanks and reservoirs
- Wastewater and sewage pits
- Pump stations and sumps
- Fire-water and cooling-tower tanks
- Water and wastewater treatment plants
- Chemical tanks: acidic, alkaline, saline
- Corrosive liquids (PTFE probe)
- Building services and HVAC tanks

Features

- Non-contact ultrasonic level measurement
- Range up to 30 m, $\pm 0.5\%$ accuracy, 1 mm resolution
- Built-in LCD: level, distance and echo curve
- 4~20mA (optional HART) or RS485 Modbus-RTU
- Optional two relay outputs
- Lightning and short-circuit protection on all I/O
- Standard ABS or corrosion-resistant PTFE probe
- IP65 enclosure

Key Data

Measuring range	0~30 m
Blind zone	0.25~0.8 m
Accuracy	$\pm 0.5\%$ F.S.
Resolution	1 mm
Output	4~20mA / RS485
Protection	IP65

LCD Display

- Level: from tank / pool bottom to medium surface
- Distance: from sensor face to medium surface
- Echo curve display for on-site diagnosis
- Parameter setting and configuration on site

Specifications

Ultrasonic Level Meter

Measurement Range	0~30 m (select according to actual application)
Blind Zone	0.25 m ~ 0.8 m
Accuracy	±0.5% (full scale, under standard conditions)
Resolution	1 mm
Pressure	Atmospheric pressure
Display	Built-in LCD: level (tank / pool bottom to medium surface), distance (sensor face to medium surface) and echo curve display
Output Signal	2-wire: 4~20mA / 250Ω, optional HART 4-wire: 4~20mA / 510Ω, RS485 (Modbus-RTU, configurable) Relay output: 250VAC / 5A or 30VDC / 2A
Power Supply	2-wire: 24VDC standard 4-wire: 24VDC standard / optional 12VDC or 100~240VAC
Power Consumption	4-wire: < 80mA @ 24VDC (without relay output) 2-wire: < 30mA @ 24VDC
Ambient Temperature	-20°C ~ +60°C
Probe Material	Standard: ABS Corrosion-resistant: PTFE
Protection class	IP65
I/O Protection	Lightning and short-circuit protection on all input and output lines

Selection Code:

Code and description

Remark

TxUL30

Integrated Ultrasonic Level Meter

Model

*

0~3m ... 0~30m (select according to actual application)

Range

A

4~20mA (2-wire)

Output

AR

4~20mA + RS485 + 2 relay outputs (4-wire)

Accuracy

0.5

0.5%

Probe Type

1

Standard (ABS)

2

Corrosion-resistant (PTFE)

TxUL30

0-5m

A

0.5

1

Selection Example

Despite all attempts to guarantee accuracy in this specification, NeoWave cannot be held liable for any damage, injury, loss, or expense due to errors or omissions. Product specification and design might change without prior notice in pursuit of technical enhancements.

For technical support please contact: support@neowave.tech