



LEVEL



# Radar Level Transmitter

# Tek-Wave 4300A

## 1 FEATURES

- 2-wire operation with HART
- The radar adjusts its power and sensitivity to receive one echo from measured material and eliminates any false echoes
- Simple push-button calibration
- Self-adjusting tracking radar
- Output 4-20 mA/20-4 mA
- Communication with HART® 7

## 3 APPLICATIONS

- Water and wastewater industry
- Food industry
- Process industry
- Pulp and paper industry
- Chemical industry
- Mining and metal processing

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## 2 SPECIFICATION

Temperature	-40 °F to 140 °F (-40 °C to 60 °C)
Operation	Pulse radar
Response time	Standard unit 2-3 echoes per sec. Std. with less damping 6 Echoes/sec. Fast protocol unit 10 - 30 echoes/sec.
Accuracy	±0.1% of Max. range in lab using 4-20 mA current output
Frequency	6.3 GHz
Transmit power	50 µW average
Calibration	Via communications port (required)
Diagnostics	Echo profile via communications port
Wetted materials	Antenna: Teflon antenna (ATE)
Power input	20-35 VDC
Loss of echo current	Default 22 mA or 3.5 mA
Output	4 to 20 mA with HART
Temperature PP rod	-40 °F to 176 °F (-40 °C to 80 °C)
De-coupler and PTFE rod	-40 °F to 350 °F (-40 °C to 177 °C)
Material Dielectric	Er >2
Maximum pressure	72.5 PSI (5 bar) (Without De-coupler)
Conduit entry	½" NPT x 2
Enclosure	Aluminum
Ingress p rotection	NEMA 6 (IP68)
Mounting orientation	Vertical
Failsafe	On lost echo after 60 seconds to 180 seconds, user selectable to 22 mA or 3.5 mA
Agency Approvals	FM for Can. & US Explosion Proof Class I, Div.1, Groups B, C, D: Dust-Ignition Proof Enclosure for Class II/III Div. 1, Groups E, F, G.