

## MODEL R82 volume and open channel flow applications

### DESCRIPTION

Model R82 is an economical, loop powered radar transmitter bringing radar to everyday applications. Ultrasonic devices, frequently used in daily applications, can now be replaced using radar technology with its superior performance.

The electronics are housed in a single compartment cast aluminium or Lexan® housing. R82 measures effectively even when atmospheres above the liquid are saturated with vapour. Pulse Burst technology and advanced signal processing manage common disturbances such as false echoes caused by obstructions, multi-path reflections from tank sidewalls or turbulence caused by agitators, aggressive chemicals, or aerators.

### FEATURES

2-wire loop powered intrinsically safe transmitter.

26 GHz frequency.

Fast and easy configuration via 2-line x 16 characters display and 4-button keypad.

Intuitive false target profiling.

Rotatable microwave beam for optimised operation.

Encapsulated PP or Tefzel® antennas in lengths of 50 mm (2") and 200 mm (8").

Process

temperature: -40 °C to +93 °C (-40 °F to +200 °F)

pressure: vacuum to 13,8 bar (200 psi)

dielectric: 1,7 – 100.

Suited for SIL 1 loops (full FMEDA report available).

### APPLICATIONS

Open channel flow flumes and weirs.

Paint, ink and solvent tanks.

Chemical storage.

Thick and viscous media.

Batch and day tanks.

### AGENCY APPROVALS

	Ex d	Ex ia	Ex n	Ex t	XP	IS	NI	Other
ATEX		•						
CCOE		•						
cFMus						•	•	
EAC (GOST)		•						Metrology
IEC		•						
Inmetro		•						
SIL	SIL 1 (1001)							
Other approvals are available, consult factory for more details								

