

FUZYPRO "Smart" Radar Explosion Proof Measurement Sensors

60 Meg Dr London Ont. N6E 3T6 Canada
 Tel: (519) 686 – 2715 Web: www.hcs77.com
 Fax: (519) 686 – 8159 E-mail: Hcs@hcs77.com

FEATURES

Self Adjusting Tracking Radar
 Output 4-20 mA / 20- 4mA
 Recommended RS232 or RS485
 For communications with calibration,
 diagnostics & data logging software
 PLC compatible (Modbus RTU)
 Three Wire Operation

APPLICATIONS

Water / Wastewater
 Chemicals with vapors

MECHANICAL

Conduit Entry : 1/2" NPT
 Enclosure : Aluminum /S.S.- 94V0
 Ingress Protection : TYPE 4/4X ,
 NEMA 4 (IP65)

ENVIRONMENTAL

Approvals : Explosion Proof For
 Class I, Div.1, Groups B, C, D:
 Dust-Ignition Proof Enclosure for
 Class II/III Div. 1, Groups E, F, G
 Approvals : FCC Part 15 - Low
 Power Communication Device
 Temperature : - 40 to 140°F (- 40 to 60°C)
 Installation Category : Class II

**Catalogue # - On the Web return to Home
 Page & refer to Catalogue Number Structure
 for ordering information. In Product
 Documentation refer to page 2.**

TECHNICAL SPECIFICATIONS

Range Code	Operating Range In Liquids	Resolution	Mounting
050	* - 50 ft. * - 15 m	0.22" 5.7 mm	2.0, 1 1/2" NPT **
100	* - 100 ft. * - 30 m	0.44" 11 mm	2.0, 1 1/2" NPT **

Note - * Minimum Distance starts at the lower tip of the antenna .
 ** Only 2" NPT Mtg. Connection Available on High Temp. Unit

OPTIONAL

Antenna Extension : 6" or 8" Lengths
 - Use only with Teflon Antenna !
 - Refer to catalogue number Page for
 ordering info.
 High Temperature Unit :
 - 2" / 1 1/2" NPT Process Connection
 - Teflon De-coupler threads on with
 2" NPT Process Connection.



Antenna Extension



PROCESS

Material Dielectric : Er >2
 Pressure : 5 bar Max. 15-75 psi
 Temperature : - Std. Sensor
 PP Rod : - 40 to 140°F (- 40 to 60°C)
 High Temp. Optional Sensor
 PTFE Rod : - 40 to 400°F (- 40 to 204°C)
 Teflon Temperature Decoupler Required

OPERATIONAL

Operation : Pulse Radar
 Accuracy : +/- 0.1% of max. range in lab using
 4-20mA current output
 +/-0.25% of max. range (typically in field)
 Frequency : 6.3 GHz
 Loss of Echo Hold : 1 min., 22mA or 2mA output
 Transmitter Power : 50 uW average
 Calibration : via optional communications port.
 (required)
 Diagnostics: (Echo Profile) via communications port
 Antenna : Dielectric rod PP or Optional PTFE

ELECTRICAL SPECIFICATIONS

Power DC 12 to 30 VDC , 0.07 A max @ 24 Vdc
 FRL300 R load = (Vs — 6) / 24 mA

Output 4-20 mA Output 6.1 uA resolution
 Optional RS232 or RS485
 communications port