

MICROWAVE LEVEL SWITCH - FDMS 20

Measurement Principle

Application

FDMS20 microwave level detector, based on the latest microwave technology and consisting of transmitters and receivers, can be used to detect material levels, control material flowing or counting material bulks.



Microwave level detector provides a method of non-contact measurement, so it can be installed in silos, carrier pipes, rods or free fall extensions. According to different models, it can be applicable for a range of (0 ~ 8) m with customized wider range. For any vessel shell or carrier pipe of non-metallic materials, measurement can be directly conducted from the outside.

Due to the adoption of special non-metallic window materials, detectors can be completely separated from the measured media, thus being able to measure corrosive and abrasive materials, bulk materials or applied to high temperature or high pressure conditions.

With adapters equipped, detector can be applicable in such conditions with pressure up to 2MPa and operating temperature up to 700 C.

Technical Specifications

| | |
|-----------------------------------|---|
| Measurement range: | 0-8m |
| Process connection: | G1½A 1½NPT flange, isolation flange |
| Working pressure: | 0....1MPa or 2MPa (Process Adapter) |
| Process temperature: | -20....80° C -40....220° C (with process adapter) Max 700° C (Ceramic Flange) |
| Ambient temperature: | -20....60° C |
| Housing material: | Stainless steel 316L |
| Protection level: | IP67 |
| Power supply: | 16....30 V DC |
| Relay output: | SPDT |
| Capacity of relay output contact: | 1A 250V AC |
| Relay time delay: | 1-60 sec (adjustable) |

MICROWAVE FLOW DETECTOR - FDDS

Principle

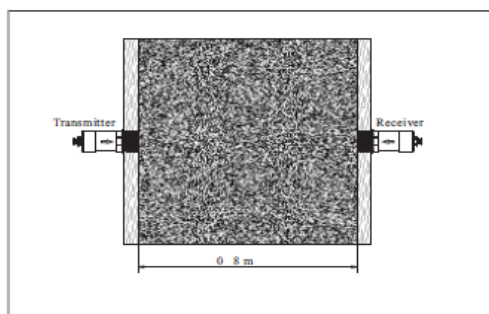
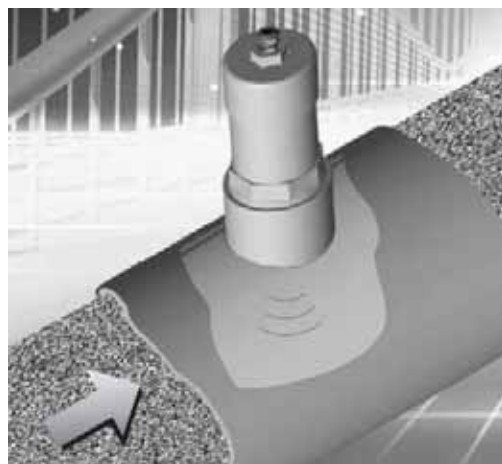
FDDS microwave solid flow switch is invented to detect material conditions in pipes such as flowing, blocking or emptying and detect flowing material over conveyor belts in transfer chutes with the advanced microwave technology and Doppler principle.

The system promotes continuous and efficient operations by informing users that solid or powder materials are flowing and alerts them if the flow status has changed, power has been lost, or if communication between the Remote Sensor Probe and the Control Console has been interrupted.



Technical Specifications

| | |
|---|---|
| Housing Material: | Stainless Steel 316L |
| Protection Level: | IP 67 |
| Power Supply: | 16....30V DC/ 90....240V AC |
| Measurement Range: | 0....2m |
| Relay Output: | SPDT |
| Capacity of Relay Output Contact: | 1A 250V AC |
| Relay Time Delay: | Max 15s |
| Working Pressure: | 1....20MPa (Process Adapter) |
| Process Temperature: | -20 ...+80° C -20 ...+220° C (Process Adapter) -Max 700° C (Ceramic Flange) |
| Ambient Temperature: | -20 ...+60° C |
| Storage and Transportation Temperature: | -40...+70° C |
| Relative Humidity: | <95% |





ENVIRO CONTROLS

An ISO 9001:2008 Certified Company

About EIP

EIP was established about three decades ago, since then the company has been able to build its reputation in the field of Design / Manufacture Supply of accurate reliable POINT LEVEL AND INVENTORY CONTROL SYSTEMS which have proven to be in satisfactory operation under harsh environmental conditions. Apart from India EIP products have also been proven in other countries.

EIP aims to provide not only stable operating system but also to re-engineer equipments and systems as per the needs of the customers. This has been possible due to our wide experience in this field backed by constant technological development and absorption of new technologies developed world-wide.

EIP's strong endeavor to provide the best solution to its customers has gone a long way in introducing the most advanced level measurement technology from time to time.

Recent value addition to the Solutions provided by EIP is the Non Contact Ultrasonic Flow Meter which solves the problem of accurate flow measurement without any invasion into the pipeline, and the Solid Flow Detector which determines any choking or jamming of the pipelines in which ash or any other Solid material is flowing.

EIP has also diversified its portfolio to provide Zero leakage Non Corrosive Heavy Duty Knife Gate Valves, Butterfly Valves and Water Control Gate.

EIP ENVIRO LEVEL CONTROLS PVT. LTD.

B-45, SECTOR-8, NOIDA-201301, (INDIA)

Tel. No. : 91-120-2421831,2421832 & 4243333

Fax No.: 91-120-2421833

Email: rgoyal@eipenviroindia.com, rajat@eipenviroindia.com

Website : www.eipenviroindia.com



URS is a member of Registrar of Standards (RoS) Ltd