

FLOW NO-FLOW FLOW SWITCH 510M

Greenbank Energy Solutions Inc. 185 Plumpton Ave. Washington Pa. 15301
Tel 724-229-1180 / Fax 724-229-1185
Web Page: www.greenbankenergy.com

FlowSwitch 510M

Continuous flow monitoring for Bulk Materials



Application

The FlowSwitch 510M is monitoring the conveying stream of solids.

Failures and problems during the transport or feeding of **powders, dust, pellets** or **granules** can be detected early with this device. This helps prevent serious difficulties that can occur due to clogged piping, material loss, or other technical problems with the system. Applications include the Power Industry, Pulverized Fuels, Dry Sorbent Injection, Chemical Industry, Building Materials industry, Pharmaceuticals, Recycling Industry Ect.

GREENBANK ENERGY SOLUTIONS
GESI FLOW SWITCH 510M



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Main Benefits

- ◆ Reliable, contactless microwave measurement
- ◆ For all bulk materials
- ◆ Monitors the mass flow in solid handling
- ◆ Adjustable sensitivity, damping, hysteresis and filter time
- ◆ Easy installation by compact form
- ◆ Process connection with welding nozzle

Function

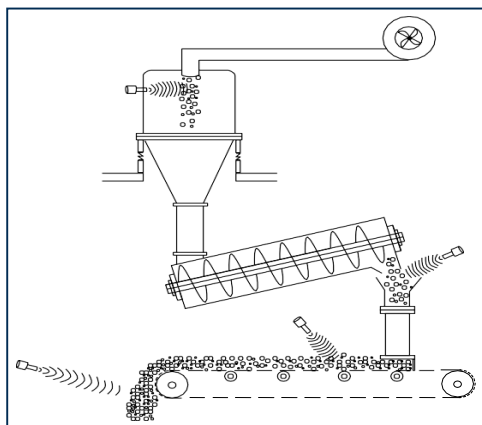
The measurement procedure of the Flow-Switch 510M is based on the physical principle of the Doppler-Effect.

Therefore the sensor sends out a microwave field. If solids move through this field, the microwaves are reflected and received by the sensor again. This is converted into a switching process.

All parameters, like sensitivity, damping, filter time and hysteresis are freely adjustable and, can be configured, due to the bargraph, with an exact value. This enables a variable determination of the switching point resp. a switching process for different mass flows.

The installation can be carried out within pipes, on conveying belts, on fall plates, chutes or at similar transport facilities.

The assembly is simply, economical and easy also afterwards possible.



Technical Data

Housing material	Stainless steel
Sensor surface	Teflon (optional ceramic)
Protection class	IP65
Ambient temperature	-20°C to +60°C
Process temperature	-20°C to +80°C
Process pressure	2 bar (optional 25 bar)
Power supply	24 VDC (18 - 30 VDC)
Current consumption	Ca. 80 mA at 24 VDC
Transmitting power	10 dBm
Output (switching)	Relay contact (change-over contact, potential free)
Switching voltage	35 VAC or 45 VDC
Switching current	min. 10 µA & max. 1 A
Switching power	35 VA or 30 W
Electr. connection	Plug-in screw terminals
Adjustable parameter	Sensitivity, damping, filter, hysteresis, min / max switch
Parameterization	Direct at device via buttons
Indicators	LED green (working) LED yellow (Switch) Bargraph (Field Intensity)

