

MODEL WC

New 2021 Updated Model



Smart Inventory Monitoring Sensor

- New and improved, tangle resistant cable
- Enhanced sensitivity Hall effect technology
- Freeze prevention internal heater included
- Improved reliability

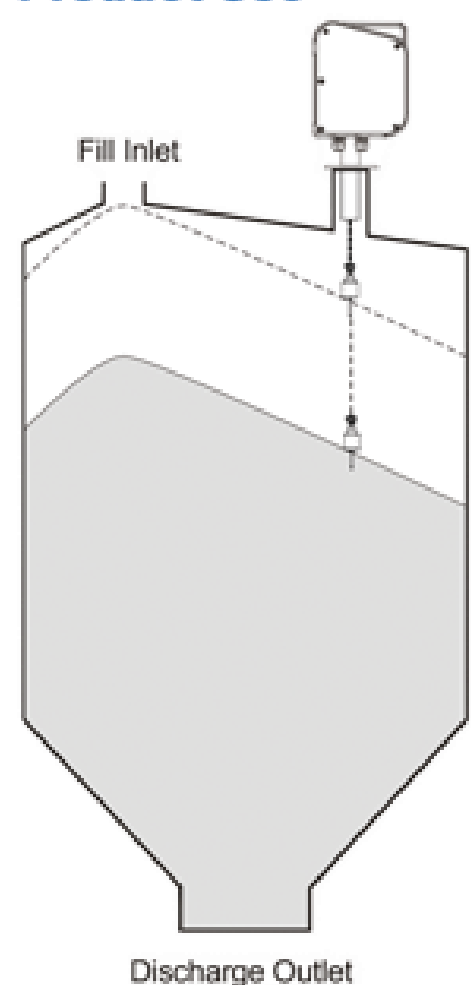


ABOUT

4G Weight & Cable Technology, Direct RS 485 MODBUS Ready! Ideal for monitoring inventory levels of powders, granular materials and even many liquids- easy setup, reliable and proven smart sensor technology.

The Model WC utilizes magnetic technology to monitor the descent and ascent of the weight & cable system, allowing intelligent control of the travel and operation of the cable system to ensure reliable operation. The smart sensor control system also self-validates its operation and informs you if any cable system malfunction should occur during measurements.

Product Use



- ✓ RS 485 MODBUS Ready – integrates to your system
- ✓ Immune to dust, sound, dielectric, temperature fluctuations – reliable
- ✓ Multiple outputs; serial, analog, pulse and relays – flexible interface
- ✓ Intelligent cable system control – improved reliability
- ✓ Hall effect sensor measurement with enhanced sensitivity
- ✓ Optional sensing weights include “umbrella” weight for light materials and plastic auto-fall-off bottle
- ✓ AutoReturn™ function sets adjustable effective measuring range, 98ft (30m) max. – reliable, flexible
- ✓ RCU control unit available – sensor remote display/control
- ✓ Built-in LCM graphic display and keys – easy setup
- ✓ Built-in bulls-eye level to aid in proper installation
- ✓ Flat mounting flange is standard
- ✓ Manual, auto, SmartStart™, and external triggered modes – adaptive to application



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Technical Data

Power Supply	Universal 100-240VAC, 50/60Hz
Power Consumption	6VA
Measurement	Auto, SmartStart™, Manual, and external triggered
Range	98ft (30m)
Internal Display	LCM graphic 128 x 64 dots
Serial Com	RS 485 MODBUS communication protocol
Analog	0-20mA or 4-20mA
Pulse	DC Transistor NPN/PNP, Relay (3A @ 250VAC)
Ambient Temp	-31°F to +140°F (-35°C to +60°C)
Process Temp	-31°F to +176°F (-35°C to +80°C)
Enclosure	Cast aluminum, powder coat, NEMA Type 4X, IP66
Self-Validation	Cable break, buried weight, lockout
Certifications	CE Mark

Ordering Information

5 7 - 1 **X** 1 **X** - **X** **X** **X**

Version	Approvals	Mounting Flange
1 - Standard	1 - CE Mark (Ordinary Locations)	1 - Flat Flange 2 - 5° Angle Flange 3 - 10° Angle Flange 4 - 30° Angle Flange

Sensing Weight	Cable
1 - Standard Aluminum 2 - Umbrella 3 - Plastic (Auto Fall-Off) 4 - Stainless Ball Float	1 - Nylon Jacketed SS

Principal of Operation

The Model WC inventory monitoring sensors are fourth generation smart weight & cable style instruments using a proven technique for measuring the distance from the sensor to the surface of the target material. Unlike most other weight & cable type sensors, the Model WC uses enhanced sensitivity Hall effect technology to measure the distance/level. This eliminates optical devices that may be susceptible to dust and dirt through normal use or during installation.

Application and Use

Model WC inventory monitoring sensors are used to measure the material contents in a vessel based upon the level of the material inferred from a direct distance measurement and the known height of the vessel. The sensor will process its measurement and indicate the value on its LCM graphic display as well as via the sensor's outputs; MODBUS communication, analog (0/4-20mA dc) and Pulse (transistor and relay types). The result of measurement is not affected by environmental factors such as sound waves, dust, static electricity, humidity, and dielectric, etc.

The optional Model RCU remote control unit is available to interface with multiple sensors and provide display of distance/level values as well as allowing operator control of the sensors as well. Industries where applications are found include; Plastic Processing, Concrete, Cement, Food, Agriculture, Recycling, Power and more.

Standard Sensor Models Include

- 98ft (30m) Nylon jacketed stainless steel cable
- Freeze prevention internal heater
- Multiple outputs; MODBUS, Analog, Pulse, Alarms
- AutoReturn™ function sets maximum measuring distance
- Flat, 5°, 10° or 30° mounting flange
- Standard, umbrella, plastic digestible or stainless-steel float sensing weights
- Built-in "bulls-eye" level aids in installation
- Adjustable measuring deadband to fit application
- Ordinary locations

Model RCU Accessory (Optional)

- Remote Inventory Control at Your Fingertips
- For Remote Communication with Model WC Inventory Sensor



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