

Model WC

Smart Inventory Monitoring Sensor

3G Weight & Cable Sensor Technology, Direct MODBUS Ready!

Ideal for monitoring inventory levels of powders, granular materials and even many liquids- easy setup, reliable and proven smart sensor technology



The Next Level



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technologies

Principal of Operation

The Model WC inventory monitoring sensors are third 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 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. In addition, 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.

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 LCD display as well as via the sensor's outputs; MODBUS communication, analog (0/4-20mA) and Pulse (transistor and relay types). The distance/level information can be used directly or converted into volume and weight by a receiving device or control system. 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 Model Includes

- 98ft (30m) Nylon jacketed stainless steel cable
- Multiple outputs; MODBUS, Analog, Pulse, Alarms
- AutoReturn™ function sets maximum measuring distance
- Flat, 5° or 10° 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

Technical Data Summary – Sensor

Power Supply	Universal 100-240VAC, 50/60Hz
Power Consumption	6VA
Measurement	Auto, SmartStart™ and Manual
Range	98ft (30m)
Internal Display	LCD, dot matrix 8 x 2, w/backlight
Serial Com	MODBUS standard
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

Model WC

Smart Inventory Monitoring Sensor

- ✓ MODBUS Ready - integrates to your system
- ✓ immune to dust, sound, dielectric, temperature fluctuations - reliable
- ✓ multiple outputs - flexible interface
- ✓ intelligent cable system control - reliable
- ✓ hall-effect sensor measurement - reliable
- ✓ SmartStart™ mode - adaptive to application
- ✓ AutoReturn™ function - reliable, flexible
- ✓ RCU control unit available – sensor remote display/control
- ✓ built-in LCD display and keys - easy setup
- ✓ you are protected - *golden parachute support*

Ordering Information – Sensor

Final Assembly Part Number Structure

55 - 1X1X - XXX

Mounting Flange

- 1 - Flat Flange
- 2 - 5° Angle Flange
- 3 - 10° Angle Flange

Version

- 1 - Standard

Approvals

- 1 - CE Mark
(Ordinary Locations)

Sensing Weight

- 1 - Standard Aluminum
- 2 - Umbrella
- 3 - Plastic (Auto Fall-Off)
- 4 - Stainless Ball Float

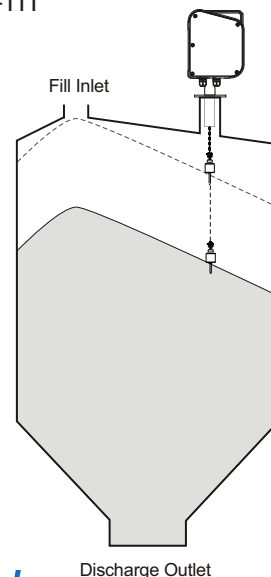
Ordering Information – Remote Control Unit

Part Number: 56-1111-111

Cable

- 1 - Nylon Jacketed SS

Product Use



The Next Level

BlueLevel Technologies, Inc.
3778 Timberlake Drive, Richfield, OH 44286
Ph: 330-523-5215 | Fx: 330-523-5212
bluelevel@blueleveltechnologies.com
www.blueleveltechnologies.com

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