



MARK-4TM

NEMA 4/7/9, shown with standard plastic weight

FEATURES AND BENEFITS

weight

Silos up to 100 ft (30.5 m)

 Large range of silo heights can be accommodated

1cm (0.39 inches) Resolution

Accurate readings

Isolated 4-20 mA Output with Adjustable Span (Reversible)

 No loop isolator is required when connecting to a PLC or DCS

RS-485 Communication

MODBUS protocol

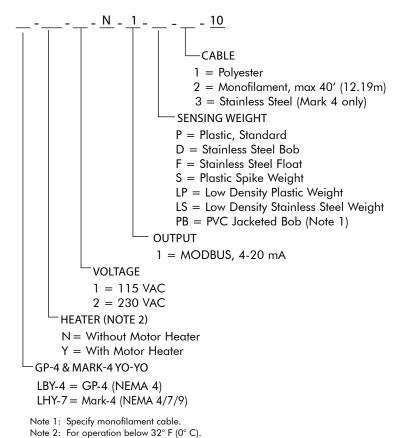
Remote Display Programmer with Keypad

- 4-line x 20-character backlit LCD display
- Programmable sensor names and ranges
- Enable/Disable network addresses

DESCRIPTION The GP-4[™] and Mark-4[™] Yo-Yo[™] sensors are designed to provide accurate, reliable inventory management information for tanks and silos.

The GP-4 is housed in a NEMA 4 enclosure. The Mark-4 Yo-Yo sensor is housed in a NEMA 4/7/9 enclosure. The Bindicator® remote display/programmer can request readings, monitor up to 99 GP-4 and Mark-4 sensors, and program silo parameters. The display/programmer is used to configure a single sensor or a whole system. An adjustable autotimer allows the user to set automatic measurement cycles ranging from 2 minutes to 1 week. While in operating mode, the display will show the sensor address, sensor name, measurement in the specified units, percentage, display mode and the status of the current device. The display can be used with GP-4 Display/Programmer or Bindicator ORB™.

HOW TO ORDER



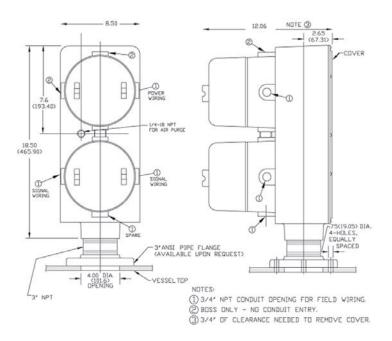
SENSOR WEIGHT OPTIONS



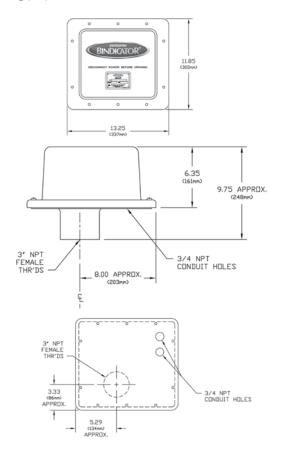
SPECIFICATIONS

FUNCTIONAL	MARK-4/GP-4 YO-YO	
Operating Power	115 VAC or 230 VAC	
Power	115 VAC, 50/60 Hz, 32 watts	
Power Consumption	(operating), 4 watts (quiescent)	
	(with heater add 10 watts)	
Operating	32° to 120° F (0° to 49° C);	
Temperature	with heater -31° to 120° F (-35° to 49° C)	
Output	MODBUS, Analog 4-20 mA optically isolated (user sourced) into 600 ohms max	
PERFORMANCE		
Repeatability	2 cm (0.8 in)	
Measurement Span	Up to 100 ft standard	
Automatic Timer	From 2 minutes to 9999 minutes	
	(approx. 1 week)	
PHYSICAL		
Mounting	3" NPT	
Conduit Entry	GP-4: 2 each ³ / ₄ " NPT,	
	Mark-4: 3 each ³ / ₄ " NPT	
Air Purge Connection	1/4" NPT	
Enclosure Material	GP-4: Minlon® frame, low density polyethylene cover Mark-4: Polyester coated cast aluminum	
Enclosure Rating	GP-4: NEMA 4	
	Mark-4: NEMA 4/7/9	
Shipping Weight	GP-4:13 lbs (6 kg) Mark-4: 26 lbs (12kg)	
OPTIONS		
	Motor Heater	
	YoYo Display	
	ORB	
APPROVALS		
Mark-4	FM (US) - XP Class I, Division I, Groups C and D; T5, Ta = 60° C DIP Class II, III, Division I, Groups E, F, and G; T5, Ta = 60° C; Type 4 CSA - Class I, Groups C and D; Class II, Groups E, F and G; Class III; Type 5; Type 4	
	ATEX	
GP-4	FM (US) - General Purpose CE	

MARK-4TM



GP-4TM



DESCRIPTION The display/programmer allows a user to configure a single sensor or a whole system. An adjustable autotimer allows the user to set automatic measurement cycles ranging from 2 minutes to 1 week. While in operating mode, the display will show the sensor address, sensor name, measurement in the specified units, percentage, display mode and the status of the current device.

FEATURES AND BENEFITS

Remote Sensor Set-up and Configuration

Allows end user to set-up system from any location

Remote Measurement Request and Display

• Monitors up to 99 sensors from up to 4000 feet

4-line x 20 Character Backlit LCD Display

Easy to read level, sensor name and status

RS-485 Communication

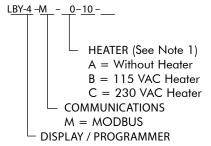
• MODBUS protocol

Optional Heater

 Keeps system running smoothly in temperatures below -4° F (-20° C)

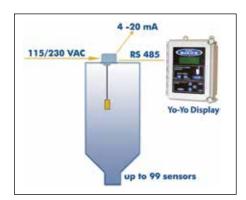


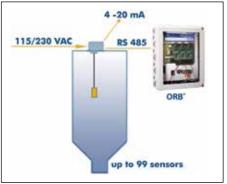
HOW TO ORDER



Note 1: For operation below -4° F (-20° C)

SYSTEM CONFIGURATION





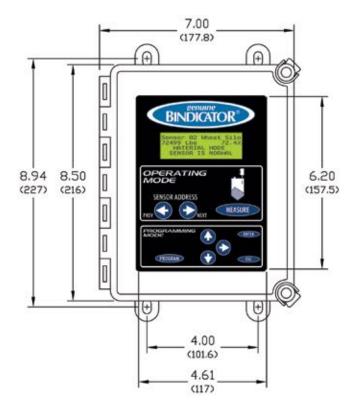
* See ORB Technical Sheet for Specifications.

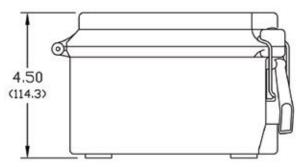


SPECIFICATIONS

FUNCTIONAL	Display / Programmer	
Operating Power	Powered from Yo-Yo sensor	
	(9-24 VDC);	
	With optional heater,	
	120/240 VAC required	
Operating	-4° F to 158° F (-20° C to 70° C);	
Operating Temperature	with optional heater:	
	-40° F to 158° F (-40° C to 70° C)	
PHYSICAL		
Communication	RS-485 MODBUS	
Communication	Optional integral modem	
Sensors	Up to 99	
D' I.	4 lines by 20 characters	
Display	Backlit LCD display	
Keypad	NEMA 4X soft-touch	
Enclosure	NEMA 4X molded fiberglass	
Enclosure	polyester	
PERFORMANCE		
Wiring	Belden® 9842, 4 wire shielded	
Requirements	cable	
Wiring Distance	4000' max	
Speed	115 Kbps	
Protocol	MODBUS	
Interface	RS-485	
Internal Modem	Optional 56K Modem	

DIMENSIONS





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