

HMI² Operator Interface Control Console

FEATURES & ADVANTAGES

- ▼ Two sensor networks with a capacity of 16 sensors each (32 total) are provided to communicate with SiloPatrol[®] SMU {£ "Smart" RS-485 cable-based level sensors and/or the Flexar[®] guided wave radar sensors.
- Calculate and display values for level, volume, weight and percent with data input from the user.
- Volume and weight calculations now have the ability to include the additional amount of material contained in the roof sections of steep silo roofs below the sensor mounting location.
- Automatic, Manual or Auto/Manual operating modes provide versatility for SiloPatrol[®] SMU §.
- ▼ Displays real-time measurement updates provided by Flexar® sensors.
- Set-up parameters for Flexar[®] can be modified by using the HMI² keypad.
- Built-in 16 point strapping table to produce volumetric or gravimetric calculated readings if the dimensions of a vessel cannot be determined or the vessel is of an irregular shape.
- Flexible display of data in English or Metric units including feet, meters, pounds, kilograms, cubic feet, cubic meters, U.S./British bushels, gallons, liters, tons, metric tonnes.
- Unique back-lit display ensures visibility in low light conditions.
- ▼ Programmable 12-character alphanumeric name for labeling vessel contents.

PRINCIPLE OF OPERATION

The **HMI**² operator interface control console provides convenient, local interface for Monitor's "Smart" RS-485 **SiloPatrol**[®] SMU {{ cable-based inventory monitoring sensors and/or Flexar[®] guided wave radar sensors. **HMI**² allows for monitoring up to 32 SMU {{ and/or Flexar[®] sensors. The multi-functional **HMI**² displays measured and calculated data and displays system and sensor diagnostic messages communicated by two separate RS-485 communication networks.

The **HMI**² display screen can be easily switched to view calculated level, volume, weight or percent in addition to the basic distance measurement. The **HMI**² can be programmed to operate the SMU {{ "Smart" RS-485 sensors automatically, manually or allow for both. Menu options allow the user to select days of SMU {{ operation (such as Mon.-Fri.), time window (such as 7 a.m.-3 p.m.) and measurement interval (minimum 30 minutes). Flexar's measurements are updated automatically.

PRACTICAL APPLICATIONS

- ▼ Use when an affordable local interface with "Smart" RS-485 SMU's and/or Flexar[®] continuous level sensors is desired.
- Great choice when managing multiple "Smart" SMU \{ and/or Flexar[®] level sensors.
- Choose the HMI² as an operator interface when access to a PC is not available.
- Strapping table feature is ideal for when accuracies of geometrically calculated volumes and weights are not satisfactory.





OPTIONS

 Control analog outputs and/or relay outputs when using the optional Auxiliary Output Enclosure (AOE).

For more detailed information, please contact a Monitor representative or visit Monitor's website at http://www.monitortech.com/product_c_c_hmi2.shtml



Scan this with a smartphone QR-Code app for more product details.



Practical Tip

HMI² is a perfect operator interface

for environments too harsh for a

regular computer.

BULLETIN 393Q

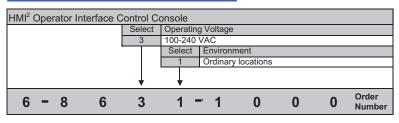
Level Blog - http://monitortech.typepad.com



SPECIFICATIONS

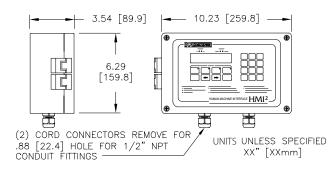
Sensor Communication: Channels: Display: Keypad: Indicators:	100-240V AC, 50/60Hz 6VA max -4° F to 131° F (-20° C to 55° C) RS-485 half-duplex, non-isolated, proprietary protocol Two 16-channel networks (32 channels total) 2 lines, 20 characters per line, 0.22" x 0.12" (5.59mm x 3.05mm) characters; LCD backlight 20 keys 8 LEDs (function, relay, and error status)
	5
Enclosure:	Painted Aluminum
Overall Dimensions (HxWxD):	6.29" x 10.23" x 3.54" (160mm X 260mm X 90mm)
Approvals:	CE Mark

ORDERING INFORMATION



MECHANICALS

DIMENSIONS ARE SHOWN IN INCHES WITH MILLIMETER EQUIVALENT IN BRACKETS



ACCESSORIES:

<u>Part #</u>	Description
6-4011	Wall Mounting Bracket (Set of 4)
R0514-22001	Belden [®] 9322 RS-485 communication cable (Overall Beldfoil [®] Shield - 100% Coverage, PVC Insulation, Chrome PVC Jacket, Nominal OD is .201" [5.10mm]) ¹

NOTES:

1. R0514-22001 cable is not for plenum installations. Consult local electrical codes and verify compliance before installing.



2

ISO 9001:2008 Certified

MONITOR TECHNOLOGIES, LLC

44W320 Keslinger Road ▼ P.O. Box 8048 Elburn, IL 60119-8048 USA Tel: 1-630-365-9403 ▼ In US/CAN 1-800-766-6486 Fax: 1-630-365-5646 ▼ monitor@monitortech.com www.monitortech.com ▼ www.flexar.info Blog: www.monitortech.typepad.com

Information on this sheet is subject to change without notice.