



# Electronic Sensors, Inc.

## Model 9032A Reporter II Controller

### DESCRIPTION

The Reporter II is a full feature, programmable liquid inventory monitoring and controlling modular system. It consists of at least 2 components: the continuously powered Reporter II and a minimum of 1 sensor to measure the level in any type of vessel. It can handle up to 6 tanks with multiple other input and output capabilities.

### OPERATION

The Reporter II receives data from each sensor input, and using this data along with programmed tank data, it calculates and displays the current level for each tank in user selectable units. It can accept a variety of inputs including analog, binary, 4-20mA, voltage, and digital just to name a few. Output functions can be added to the controller including 4-20mA, printer, relay, RS232 computer interface, and modem communications. Using the modem, level information can be collected for automation of purchasing, billing, and/or level controlling. It can also be used to program or troubleshoot the Reporter II via a phone line.

### SPECIFICATIONS

#### Monitoring Capability

6 tanks

#### Operating Temperature

-20°F to 140°F

#### Modes of Operation

Run, Program, Print, Online

#### Input Power

120/240VAC

50/60 Hz

100 watts

Single phase

#### Display

6 digit LCD 0.7 inch high

2 digit LCD 0.5 inch high

#### Modular Capacity

6 modules

#### Enclosure

NEMA 4, 4X, 12, 12X



#### Weight

10 lbs.

#### Dimensions

11.8 H X 7.3 W X 6.8 D (inches)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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**Level Devil**  
Bulk Inventory Management Systems

**HOW TO ORDER****9032A-CP-MD □ REPORTER II**

The basic Reporter II consists of the processor, power supply, and six module slots. All options are selected using the following list of items.

**MODULES****9023A-101 □ DUAL ULTRASONIC INPUT**

Two **Level Devil**® 9016 and/or 9025A sensors may be connected to this module.

**9023A-102P □ DUAL PRECISION 4-20mA INPUT**

Two transmitters, conforming to the industrial standard 4-20mA output, may be connected to this module. The module is also capable of providing 24VDC to the transmitter.

**9023A-103 □ QUAD VOLTAGE INPUT**

Four voltage signals may be interfaced to the Reporter II with this module. The required input voltage ranges are 0-1, 0-5, or ±10 volts.

**9023A-104 □ QUAD ANALOG INPUT**

Four analog signals coming from devices that output a current proportional to a physical parameter may be interfaced to the Reporter II with this module. Typical devices are temperature probes.

**9023A-105 □ OCTAL BINARY INPUT**

Eight switches/push-buttons may be connected to this module. The binary module determines the state (ON/OFF) of the switch/push-button and transmits this data to the Reporter II to control a specific option or feature. (Manual leak detection, to silence an alarm, etc.)

**9023A-251 □ QUAD RELAY OUTPUT**

Contains four (4) relays that can be toggled on or off by the Reporter II in the event of a user-defined alarm condition. These relays can be used to shut pumps off, turn on a horn, or send a signal to a remote computer or an auto phone dialer. Both normally open and normally close terminals are available.

**9023A-252 □ DUAL 4-20mA OUTPUT**

Two industry standard 4-20mA signals are generated by the Reporter II and can be programmed to represent the current level of a specific tank, temperature, etc.

**9023A-253 □ PRINTER OUTPUT**

A standard ASCII printer, operating at 300 or 1200 baud, may be connected to this module. The printer may be placed up to 2000 feet away. Includes 6 foot cable with a 25 pin D-sub connector. (See 9023A-PR)

**OPTIONS****9023A-321 □ MODEM**

Using a modem, the Reporter II can be programmed to place and/or answer a call. When in call mode, the Reporter II can transmit and receive data via the phone line. Some troubleshooting can be done over the phone as well as unit programming. Tank data can be downloaded to a remote computer and used for report generating to aid in purchasing, billing, and inventory control. This option does not use a module slot. See the Miscellaneous section of our product catalog for information on the cellular phone option.

**9023A-322 □ RS232**

The Reporter II can transmit and receive data to a local computer using this option. The RS232 option allows many of the basic communications features as described for the modem option. This option does not use a module slot.

**9023A-323 □ RS422**

Same as 9023A-322 except that this option allows a greater distance between the Reporter II and the local computer.

**9023A-485 □ RS485**

Transmit and receive data to a computer using the RS485 industrial interface. A subset of the HART protocol is used.

**9023A-PR □ 1200 BAUD PRINTER**

The printer option enhances the usefulness of the controller by giving a report of all tank levels. Time and date stamping is provided. This option is the printer itself while 9023A-253 is the module that fits inside the controller.

**9032A-CP-SAT □ SATELLITE COMMUNICATIONS**

This option allows the RTU to transmit level data and to receive commands using satellite communication, via Internet e-mail, from any location in the world. See separate Satellite Communications data sheet.

**9023A-CP-SL □ TANK TELLER II SLAVE**

Each slave unit can house and power up to six (6) additional modules. A data cable is connected from the first slave to the Reporter II controller unit. Each additional Slave's data cable is connected to the preceding Slave. The maximum number of slaves is limited by the maximum number of channel addresses of the Reporter II

Your Area Representative:

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