



Electronic Sensors, Inc.

Model 9023A Tank Teller II Controller

DESCRIPTION

The Tank Teller II is a full feature, programmable liquid inventory monitoring and controlling modular system. It consists of at least 2 components: the continuously powered Tank Teller II and a minimum of 1 sensor to measure the level in any type of vessel. It can handle up to 99 tanks with multiple other input and output capabilities.

OPERATION

The Tank Teller 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, modem or satellite communications. Using the modem or satellite option, level information can be collected for automation of purchasing, billing, and/or level controlling. It can also be used to program or troubleshoot the Tank Teller II via a phone line or the Internet.

SPECIFICATIONS

Monitoring Capability

99 tanks

Number of I/O Channels

256 available

Operating Temperature

-20°F to 140°F

Modes of Operation

Run, Program, Leak Detection, 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
Add 'Slave' to increase capacity

Enclosure

NEMA 4, 4X, 12, 12X



Weight

10 lbs.

Dimensions

11.8 H X 7.3 W X 6.8 D (inches)

Slave Unit

Same specs as Tank Teller II controller unit except for processing capability. Adds 6 modular capacity per slave

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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Rev 11/05

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Level Devil
Bulk Inventory Management Systems

HOW TO ORDER**9023A-CP-MD □ TANK TELLER II**

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

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 Tank Teller 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 Tank Teller II.

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 Tank Teller 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 Tank Teller 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 Tank Teller 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 Tank Teller 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 Tank Teller 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 Tank Teller II can be programmed to place and/or answer a call. When in call mode, the Tank Teller 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 Tank Teller 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 Tank Teller 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.

9023A-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.

Your Area Representative:

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