New Hardware for 2006

Access Control and Data Entry

RCU II
Remote Control Unit

The RCU II is a rugged industrial data terminal designed for driver/operator interface. The RCU II includes a graphical display, keypad, and card reader all mounted in a heavy-duty metal enclosure.

RCU II Applications

- Access Control
- Entrance and Exit Gates
- Load Rack Access
- Data Entry Terminal
- BOL Request Station
- Staging Area - Order Entry

How it Works

TMS uses the RCU II to control access to entry and exit gates, load racks, and BOL request stations, as well as a variety of other options. TMS is capable of supporting customized prompts via the RCU II for entry of account number, order number, truck number, language selection and other critical information required at your facility.

Specifications

Instrument Power
AC: 100-250 VAC, 50-60 Hz
DC: 18-36 VDC

Display
Active Matrix TFT Color LCD
16-Line, 640x480 VGA
Division 2: 8.4" Diagonal
Ex-Proof: 6.5" Diagonal

Environmental
Operating Temperature: -25°C to 60°C
Operating Temperature (with AC heater option): -40°C to 60°C
Enclosure: NEMA 4, IP-65

Compliance Information
Pending: UL Listed Class I, Division 2, Groups C & D, CE marked Zone 2, Group IIB (for Division 2 model)
Pending: UL Listed Class I, Division 1, Groups C & D, ATEX certified Group IIB (for Ex-Proof model)

Communications
1- RS485, 1- RS-485/232 (User Selectable),1- RS232 (Full Function), 1- 10/100 Mb Ethernet

Weight
Ex-Proof Enclosure: 70lbs Est.
Division 2 Enclosure: 29lbs

Dimensions:
(Ex-Proof Enclosure): 16"x16"x7" (Division 2 Enclosure): 16"x12"x4"

veriFID Gen 2
Fingerprint Verification

Most terminals already use driver cards and PINs to identify drivers. This technology only validates that the card is presented, not who is presenting it. PINs can be lost, loaned to someone, or stolen. With **veriFID**, you verify a person's identity rather than relying on what they know or what they have.

How it Works

A driver presents his or her card at the RCU, and rather than entering a PIN code (ATM style), the driver is prompted by the RCU to place their finger/thumb on the **veriFID**. The **veriFID** matches the driver fingerprint to a template stored in TMS and allows the continuation of the validation process. If the person presenting the card is not the authorized driver, then the driver/card will be denied access. Additionally, TMS can raise alarms or page/e-mail appropriate personnel with this information. **veriFID** is easy to install and utilizes existing RCU wiring.

Specifications

Instrument Power
AC: 85-265 VAC, 50-60 Hz
DC: 18-36 VDC

Environmental
Operating Temperature: -20°C to 60°C
Enclosure: NEMA 4, IP-54

Compliance Information
Class 1, Division 2, Groups C & D
EMC Compliance, Emissions: Light Industrial, Immunity: Heavy Industrial
Safety: EN60590

Communications
RS-485/422, RS-232 (multidrop)
Protocols: Brooks, Daniel, Smith
DIP switch selectable address, baud rate and other communication parameters

FIngerprint Sensor
SecuGen FDA02 Optical Sensor
Image Resolution: 500 DPI ± 1 DPI (0.2%)
Image Size: 260 x 300 pixels
Light Source: Red LED

Weight
5lbs (2.3kg)

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New Hardware for 2006

Load Rack Control

Traditional electronic presets have been at the center of the load rack for many years. Although incremental improvements have been made and their capabilities have increased, the fundamental design of electronic presets has not changed in more than a decade. The release of Toptech MultiLoad introduced a new era of load rack control by eliminating the need to maintain multiple interfaces between terminal automation systems and intelligent control devices, such as additive injection controllers and electronic presets.

Toptech has taken the characteristics that have made MultiLoad so successful and incorporated them into a suite of next generation load rack control solutions.

Introducing the MultiLoad II Product Group

MultiLoad II provides a variety of platforms, fitting virtually any application: (MultiLoad II, MultiLoad II 1-arm, MultiLoad II SMP)

MultiLoad II

The MultiLoad II consists of a Toptech RCU II and a number of external Flow Control Modules (FCM). One RCU II is required for each lane. The RCU II serves as card reader, load arm (preset) controller and additive controller for the entire lane. The FCMs provide the I/O to operate all meters, valves and injectors at the lane.

Explosion Proof MultiLoad II

MultiLoad II 1-arm

MultiLoad II 1-arm consists of a Toptech RCU II appointed with internal I/O. This cost-effective package is ideal for applications that require minimal I/O (i.e., 1-arm bay); it can also take advantage of external FCMs when additional I/O is required.

MultiLoad II SMP (Single Meter Preset)

The MultiLoad II SMP is an economical package designed to handle single arm, straight product loading with additive injection capability. This unit consists of a compact, explosion-proof enclosure with a small display and keypad.

Product Matrix

	Enclosures			Display			Keypad			Power		I/O		CR
Products (X=Req., o=Opt.)	RCU Div 2 Enclosure	RCU Explosion Proof Enclosure	SMP Explosion Proof Enclosure	8.5" Active Matrix Color TFT Display	6.5" Active Matrix Color TFT Display	3.0" QVGA Passive Matrix LCD Display	AlphaNumeric Keypad	AlphaNumeric Keypad w/Barrier	Numeric Keypad w/Barrier	AC Power and Comm. Board (Option)	DC Power and Comm. Board (Option)	Field IO Board	Requires FCMs for IO	Installed Prox Card Reader
MultiLoad II	X			X			X			o	o	o	X	X
MultiLoad II		X			X					o	o	o	X	X
MultiLoad II 1-Arm	X			X			X			o	o	X	o	X
MultiLoad II 1-Arm		X			X					o	o	X	o	X
MultiLoad SMP			X			X			X	o	o	X		

*All models available with explosion-proof enclosures

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