



# MS-RTU Remote Terminal Unit

## DESIGNED FOR SCADA

Monitors and controls lift pumps, basin, and tank fluid levels along with other processes commonly found in water and wastewater systems.

## EASILY CUSTOMIZED

Expandable MicroScan products offer various configurations of the RTU.

## RUGGED DESIGN

Designed for harsh outdoor environments as well as security. It is equipped with a lockable door and optional door switch to notify owners when the enclosure door is open.



The remote terminal unit (RTU) is part of the larger InfoScan SCADA system. It is connected to the system via a MicroScan xTalk or Universal (UNV) Controller. Outfitted with MicroScan Controllers (MSC), it is typically used to monitor and control lift pumps, wells, basin, and tank fluid levels along with other processes commonly found in water and wastewater systems. The expandable nature of the MicroScan products permits various configurations of the RTU to be incorporated. Models are available to house up to three MicroScan controllers of any type. This allows optimum selection of the controller for the application.

The RTU is installed at the remote locations and then supervised by the Info-Scan system. Communications may be accomplished by available technologies such as fiberoptics or radio frequency (licensed or unlicensed). The RTU consists of a fully integrated enclosure, power supply, surge protection, and internal hardware.

A variety of devices are compatible with the MicroScan controllers, making possible almost any combination of inputs and outputs.

- Convenient Yet Rugged Mechanical Design
- Expandable Architecture
- Variety of Controls and Indicators
- Numerous Configuration Options Available



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800.331.7605      dorsett-tech.com

## TECHNICAL SPECIFICATIONS

### Physical

#### Size:

- 1 Card 20"H x 20"W x 8"D
- 2 Card 30"H x 24"W x 8"D
- 3 Card 36"H x 30"W x 12"D

**Construction:** NEMA 3R standard, NEMA 1, 4, 12 optional

**Capacity:** Up to three MicroScan controllers

#### Weight:

- 1 Card 45 lbs.
- 2 Card 75 lbs.
- 3 Card 110 lbs.

**Finish:** Hoffman Engineering Grey Powder Standard

### Electrical

#### Input:

115 VAC + or - 10%, 47-440 Hz @ 12.5A max

### Environmental

#### Temperature:

0 to 50° C.

**Humidity:** 0 to 95% Non-condensing

## Features and Benefits

The standard RTU is furnished in a NEMA 3R enclosure for use in outdoor environments, and has a lockable door. Standard features include AC and communications surge protection. Input/Output surge protection is included on the controllers that are ordered with the RTU. An optional door switch can be configured to transmit notification when the enclosure door is opened. Inside, hardware is provided for mounting all components including MicroScan Controllers and configured communications equipment.

Operation of the RTU is easily verified by indicator lamps and LEDs. Controls include a main power and reset switch. Sensors available from multiple sources are compatible with Dorsett's Micro-Scan products. Standard 4-20 ma, 0-5 vdc, and RTD inputs are supported.

Short distances may be connected directly to the communications network, while more distant links may require the use of wire line or wireless modems. These devices are optional equipment and are ordered separately.

A variety of models accommodating various I/O counts and options including enclosures and communications devices are available. Please consult factory for communicating device options.

## Ordering Information

- **Part No. MS-RTU-1** — Includes 20" x 20" x 8" NEMA 3R enclosure for one MicroScan controller, mounting back-plate, key lock hasp, AC power distribution module with outlet, 24 VAC power supply, AC and communication surge protection.
- **Part No. MS-RTU-2** — Same as RTU-1 except includes 30" x 24" x 8" NEMA 3R enclosure for two MicroScan controllers.
- **Part No. MS-RTU-3** — Same as RTU-1 except includes 36" x 30" x 12" NEMA 3R enclosure for three MicroScan controllers.

### OPTIONAL EQUIPMENT

To order options, add the desired option number(s) listed below to the part number from above. Choose only one item from each group (i.e. one modem, one enclosure).

Suffix	Options
-DS	Door Switch
-N1	NEMA 1 Enclosure
-N4	NEMA 4 Enclosure
-N12	NEMA 12 Enclosure

### NEED ASSISTANCE ?

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Email us: [support@dorsett-tech.com](mailto:support@dorsett-tech.com)

100 Woodlyn Drive  
Yadkinville, NC 27055  
Phone 800.331.7605  
Fax 336.679.8811



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TECHNOLOGIES  
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800.331.7605 [dorsett-tech.com](http://dorsett-tech.com)