

PowerLogic® ION7550 RTU Option

The ION7550 Remote Terminal Unit Option (RTU) is designed for data acquisition from WAGES (water, air, gas, electricity, steam) devices, via Modbus or digital/analog signaling. The RTU also supports data manipulation (e.g. scaling, signal conditioning, energy unit conversion, etc.) and interval recording.

The RTU is physically and functionally different than a standard model ION7550. A basic template that users can customize for their particular application is shipped with the RTU. For pre-configured meter templates, contact Technical Support.

All RTU specifications are the same as standard ION7550 specifications, unless otherwise noted. See the ION7550 / ION7650 product datasheet for the most current information.

Installation

See the *ION7550 / ION7650 Installation Guide* for instructions. Follow steps 1-3 and 5-10. Disregard step 4 (wiring the voltage and current inputs) and any references to power or energy in the setup and viewing data instructions.

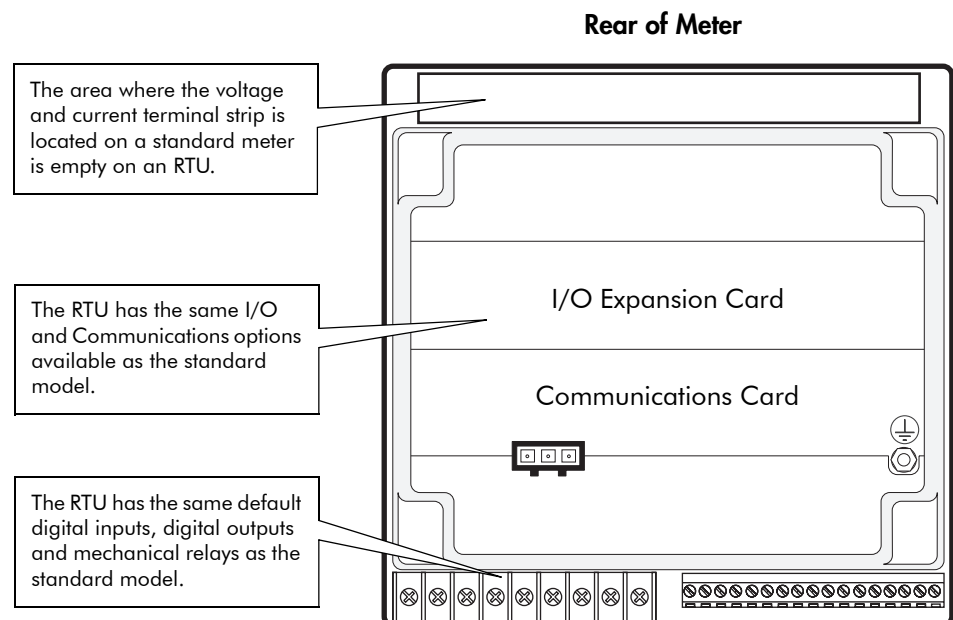
Hardware Differences

The ION7550 RTU has a different physical appearance than the standard ION7550; the 15-position terminal strip on the standard meter (I52, I51, I42, I41, I32, I31, I22, I21, I12, I11, V4, V3, V2, V1, Vref) is not present on the RTU.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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The rear label clearly indicates if the device is an RTU.

Operational Differences

The RTU does not measure any power values. Therefore, the RTU has several operational differences from the standard model.

The following features are **not available** on an RTU:

- ◆ Power Meter module
- ◆ Revenue metering and locked modules

The following features are **different** on an RTU:

- ◆ front-panel default display screens
- ◆ device template
- ◆ default WebMeter web page
- ◆ ION module counts

RTU Default Display Screens

An RTU equipped with a front-panel display includes the following default screens:

- ◆ Digital Outputs
- ◆ Digital Inputs 1-8
- ◆ Digital Inputs 9-16
- ◆ Analog I/O
- ◆ Name Plate
- ◆ Events

Enhanced Modbus Mastering

The RTU features enhanced Modbus Mastering with three new ION modules. The Modbus Master Device and Modbus Master Mapping modules work together to offer improved Modbus read functionality. The Averaging module provides simple averaging and easily links with other Modbus modules. See the *Modbus and ION Technology* technical note and the *ION Reference* for more information.