

RTU-G-03 Remote Terminal Unit

GENERAL

The RTU-G-03 Remote Terminal Unit is responsible for monitoring the alarm or communication fault status of the on-site DT-300/RJ pyrolysis sensing electrical fire monitoring detectors and making corresponding actions.

The RTU-G-03 provides three sets of independently programmable normally open passive relay outputs. When used, the RTU-G-03 is mounted on the communication bus. According to the programming data, the primary and secondary alarm output and communication fault output functions are realized for the alarm status of one or more detectors. Each group of relays can be freely programmed, and each set of output can be monitored and support up to 50 detectors.



RTU-G-03

WORKING MODE

The RTU-G-03 has two working modes.

In the master station mode, other master station equipment cannot be configured in the system, and the RTU-G-03 has the alarm function of reset detector.

- Alarm response. When any detector under the output relay configuration alarms, the relay closes the output; when all detectors in the output relay configuration return to normal state by reset or restart, the relay automatically returns to normal state.
- Alarm reset. The detector alarm reset supports manual reset and automatic reset. Alarm reset is only supported in the master station mode.

Manual reset. Reset the detector on the bus by pressing the 'CLEAR ALARM' button on the RTU-G-03.

Automatic reset. The time can be configured to close or 0 to 600min range, step 1min, default 240min. When the real-time monitoring value of the detector in the alarm state continues to be lower than the set threshold of the primary alarm and reaches the automatic reset time, the RTU-G-03 will remotely reset the detector.

- Communication fault response. The output relay closes the output when the communication of any detector under the output relay configuration fails.

In the monitoring mode, the RTU-G-03 is mounted on the communication bus as a slave device, does not occupy the communication address, and is managed and controlled by other monitoring devices as the master station.

- Alarm response. Different from the main station mode. In this mode, the reset function after alarm is performed by the master station in the system.
- Communication fault response. The output relay closes the output when the communication of any detector under the output relay configuration fails.
- Flexibility. In the monitoring mode, the device can be easily integrated into the existing monitoring system without the need for large-scale transformation or upgrading of the system.

FEATURES

- Support data acquisition, real-time monitoring, remote control, rapid response
- Equipped with double RS485 communication interface, support hand-in-hand connection mode
- Long communication distance, stable data transmission and large storage capacity
- Module structured design, easy to expand
- Can be connected to the FAS system or linkage external execution device
- Applicable to harsh industrial environment, wide range of use

ORDERING INFORMATION

Model No.	Description
RTU-G-03	Remote Terminal Unit

TECHNICAL SPECIFICATIONS

- **Dimensions (L×W×H)**
3.5×2.6×1.0 inch (90.0×66.0×26.2 mm)
- **Operating Temperature Range**
-10°C to +55°C
- **Operating Humidity Range**
relative humidity from 0% to 95%, non-condensing
- **Communication Interface**
RS485 communication interface
- **Alarm Output**
Three groups of normally open passive relay output
- **Contact Capacity**
5A@30VDC; 5A@250VAC

ELECTRICAL SPECIFICATIONS

- **Mains Power Supply**
DC24V wide voltage range DC 9 to 30 V
- **Power Consumption** less than 1VA

©2025 by Beijing HangTian ChangXing Technology Development Co., Ltd/ United Protection International Co. Ltd. All rights reserved. Unauthorized use of this document is strictly prohibited.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information, please contact UPI at sales@upi-asia.com



United Protection International Company Limited
YOUR LIFE SAFETY PARTNER