



RM2119

Master/Slave Telemetry Units



- . Provides up to 16 RM2119 units on a single cable or spare telephone pair
- . Any input can be mapped to any output on another RM2119 unit
- . Can be operated on existing spare telephone cable pairs

The ROMTECK **RM2119** MASTER/SLAVE TELEMETRY UNITS (MTU & STU) are microprocessor based intelligent units designed to allow cost effective remote monitoring and control over leased or dedicated telecom lines. Typical uses being Fire Indicator Panels, Pump Control, Remote Lighting etc.

The **RM2119** is designed using the latest technology and operates over any present and anticipated transmission media, ie dedicated copper or fibre optic, leased line, and Radio using FSK signalling techniques. The integrity of the link is enhanced through the use of Error Detection algorithms.

The **RM2119**'s variants can accept up to 20 digital input/output points from switches and relays and provides open collector outputs for operating relays, solid state switches or other devices. See variants list over page.

At the MTU, which is the controller for the network, a communication fail output can be chosen to allow indication of a communication link failure on the system.

Indicator LED's are provided on the front panel to allow easy indication of operating status and these are:

- DATA: Unit is receiving /transmitting data;
- POLL: Unit is communicating with other MTU/STU units;
- BAT: A low battery voltage indicator;
- RECEIVE: Correct Data has been decoded by the unit;
- FAULT: A FAULT has been detected;

The **RM2119** also provides the capability to connect multiple STUs by allowing up to 15 STUs to multidrop on a single line, hence reducing any telecom line rental charges if applicable.

The electronic units are housed in a compact IP55 rated ABS enclosure that has all electronics built on to the lid for easy access and exchange in the field. All field cabling is terminated in removable plugs allowing wiring to remain undisturbed.

The unit is fully programmable using a Windows software, **TUCAT** programming package to map the input and output locations and functions such as Input Enable, Input Sense, Output Enable, Output Sense, Communications Fail Enable, Number of Remote's, Unit I.D. and Output Mapping and these can be modified by the user.

SPECIFICATION

FEATURES



- Up to 12 x Digital inputs
- Up to 16 x Open Collector outputs
- Test input (optional)
- Multidrop up to 16 units on one pair of wires
- Supply voltage range 12 to 24 volts
- Minimum line input level -43dBm
- Supply current 20 mA max
- Address range 1 to 16
- FSK tones V.23 CCITT
- Signalling Baud rate 1200 Baud
- Error detecting communication protocol
- Max level to line - 10dBm
- Input polarity individually selectable
- Supply voltage tolerances and low level voltage alarms are programmable
- Single printed circuit board design with all connectors removable without disturbance of wiring.
- **AUSTEL APPROVAL NO:** A90/03/0461

MECHANICAL:

HEIGHT	100mm
WIDTH	100mm
DEPTH	50mm

ENVIRONMENTAL

Operating Temperature: -10 to +60 degC
Humidity: 0 to 90 % non condensing

RM2119 Variants

Leased Line Models Description.

RM2119-FM-16-4	FSK MTU, 16 Outputs, 4 inputs.
RM2119-FS-16-4	FSK STU, 16 Outputs, 4 inputs.
RM2119-FM-8-8	FSK MTU, 8 Outputs, 8 inputs.
RM2119-FS-8-8	FSK STU, 8 Outputs, 8 inputs.
RM2119-FM-8-12	FSK MTU, 8 Outputs, 12 inputs.
RM2119-FS-8-12	FSK STU, 8 Outputs, 12 inputs.

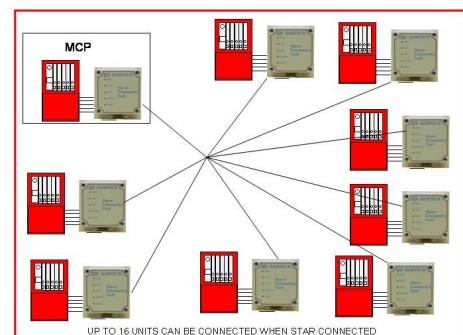
Radio Models Description.

RM2119-RM-16-4	Radio MTU, 16 Outputs, 4 inputs.
RM2119-RS-16-4	Radio STU, 16 Outputs, 4 inputs.
RM2119-RM-8-8	Radio MTU, 8 Outputs, 8 inputs.
RM2119-RS-8-8	Radio STU, 8 Outputs, 8 inputs.
RM2119-RM-8-12	Radio MTU, 8 Outputs, 12 inputs.
RM2119-RS-8-12	Radio STU, 8 Outputs, 12 inputs.

Fibre Optic Models Description.

RM2119-MMFOM-16-4	Multimode Fibre MTU, 16 Outputs, 4 inputs.
RM2119-MMFOS-16-4	Multimode Fibre STU, 16 Outputs, 4 inputs.
RM2119-MMFOM-8-8	Multimode Fibre MTU, 8 Outputs, 8 inputs.
RM2119-MMFOS-8-8	Multimode Fibre STU, 8 Outputs, 8 inputs.
RM2119-MMFOM-8-12	Multimode Fibre MTU, 8 Outputs, 12 inputs.
RM2119-MMFOS-8-12	Multimode Fibre STU, 8 Outputs, 12 inputs.

RM2119-SMFOM-16-4	Singlemode Fibre MTU, 16 Outputs, 4 inputs.
RM2119-SMFOS-16-4	Singlemode Fibre STU, 16 Outputs, 4 inputs.
RM2119-SMFOM-8-8	Singlemode Fibre MTU, 8 Outputs, 8 inputs.
RM2119-SMFOS-8-8	Singlemode Fibre STU, 8 Outputs, 8 inputs.
RM2119-SMFOM-8-12	Singlemode Fibre MTU, 8 Outputs, 12 inputs.
RM2119-SMFOS-8-12	Singlemode Fibre STU, 8 Outputs, 12 inputs.



For further product information on systems described within this brochure or any other ROMTECK products please contact the nearest ROMTECK office shown below.

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