Product Information

Monitoring Station RTU

For universal monitoring tasks

LANCIER Monitoring GmbH
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The monitoring station RTU is an universal platform for the permanent surveillance of copper or fiber network and related equipment. Its modular set-up by IEC-boards allows for the solving of very different measurement tasks. It measures the connected sensors, contacts and modules continuously and evaluates the results according to programmed thresholds.

The central UMS server permanently polls the actual time coded measurement, alarm and system data via intranet (Ethernet, TCP/IP).

The trap function of the RTU can forward status signals to superior systems. The use of the SNMP protocol allows for direct integration into TMN systems.

All connections and control units are stored in a 19” housing.

Ordering Data

Monitoring Station RTU	
36 .. 75 V DC (DC/DC power supply unit)	**Order-no. 067400.000**
100 .. 250 V AC/45 .. 65 Hz (AC/DC power supply unit)	**Order-no. 067400.008**
Spare parts / Accessories	
CPU card RTU	**Order-no. 072413.000**
Connection cable	
RS232, 1.8 m, 9-pin SUB-D male/female	**Order-no. 073134.000**
CAN, 3 m, 9-pin SUB-D female	**Order-no. 073135.000**
Communication module I-COM for RTU (analogue) with internal modem	**Order-no. 072445.001**
Interface card I-OTDR	**Order-no. 071496.000**
Interface card I-OSW	**Order-no. 071517.000**
Further ordering data	
OTDR module, 2 HU, 1625 nm, 40 dB, complete (interface card and cable included)	**Order-no. 070677.0YY**
Optical switch module, Z HU, 1xX, complete X, Y and Z depending on configuration	**Order-no. 073XXX.0YY**

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Technical Data

DC/DC-power supply unit (specifications for 60V)	
Input voltage	36 .. 75 V DC
Current consumption	approx. 150 mA without measurement cards, additionally approx. 40 mA per installed card
Power consumption	<10 VA without measurement cards, additionally approx. 2.5 VA per installed card
AC/DC-power supply unit (specifications for 230V)	
Input voltage	100 .. 250 V AC/45 .. 65 Hz
Current consumption	approx. 70 mA without measurement cards, additionally approx. 10 mA per installed card
Power consumption	<18 VA without measurement cards, additionally approx. 2.5 VA per installed card
Output voltage galvanically isolated and short-circuit proof (maximum current)	U_1 = 5 V DC (8 A) U_2 = 12 V DC (2 A) U_3 = 12 V DC (2 A) U_4 = 60 V DC (0.1 A)
RTU	
LEDs	U1, U2, U3, U4 (function check)
Operating temperature range	0 .. +55 °C
Storing temperature range	-20 .. +60 °C
Admissible humidity	0 .. 95 % rel. humidity, non-condensing
Dimensions (H x W x D)	min. 266 x 483 x 310 mm, dimension for mounting into 19”-Rack
Weight without cards	< 10 kg
Slots	12 for measurement cards in IEC format
Dimensions measurem. cards	Front plate 4 DU x 3 HU, PCB approx. 100 x 160 mm
EMC	61000-6-1/2 and 61000-6-3/4
Communication modules dimensions	
I-COM for RTU (analogue)	Front plate 8 DU x 3 HU, PCB 100 x 160 mm
Interface card I-OTDR	Front plate 4 DU x 3 HU. PCB 100 x 160 mm
Interface card I-OSW	Front plate 8 DU x 3 HU, PCB 100 x 160 mm
CPU card	
Embedded Controller	PowerPC MPC565 32-Bit 40 MHz
Operating system	RTEMS
Storing capacity	SRAM 2 MB (8 MB Option) Flash 2 MB (8 MB Option) RAMDisk 2 MB (12 MB Option)
Memory buffer	approx. 1 year by battery
RTC	12/24 hrs., programmable alarms and/or periodical interrupts
Interfaces Ethernet RS232 CAN	 10 Mbit BaseT, connector RJ45 9600 Baud 8N1, connector female 9-pin SUB-D 125 kbit 2.0B, connector male 9-pin SUB-D
LEDs	LINK, TRAFFIC
Operating elements	Reset button
Dimensions	Front plate 4 DU x 3 HU, PCB approx. 100 x 160 mm
Software	
Accessible hardware	64 Devices, 10 measurement buses, parallel measurement of all measurement cards
Storing capacity	max. 750 sensors, max. 50 OTDR-traces (at 2 MB RAMDisk)

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System Diagramme