

# Product Information

## Monitoring Station RTU 101-IMS

### For monitoring insulation- and loop resistance in copper cables

The monitoring station RTU 101-IMS is used to detect the penetration of moisture in copper cables, their squeezing or damage. The readings of the 10 measurement channels, regarding insulation and loop resistance, are evaluated by the RTU 101-IMS according to individual user programmed parameters. Threshold exceedings cause automatic reports like warnings, alarms etc. to assigned receiving stations. The UMS server permanently polls the actual measurement and system data via intranet (Ethernet, TCP/IP). It evaluates the sensing points states and stores all data in the database of the UMS server.

All connections and control units are stored in a wall mount housing. The connections are fixed by screws and clamps ensuring an easy and cost effective mounting without the need of expensive special cables.



LANCIER Monitoring GmbH  
Gustav-Stresemann-Weg 11  
48155 Münster, Germany  
Tel. +49 (0) 251 674 999-0  
Fax +49 (0) 251 674 999-99  
mail@lancier-monitoring.de  
www.lancier-monitoring.de

## Technical Data

Supply voltage	21 .. 72 V DC	
Power consumption	typ. 10 VA DC	
No. of measurement channels	10 for loop- and insulation resistance each	
	<b>Insulation measurement</b>	<b>Loop resistance measurement</b>
Measurement range	0.01 ... 500 M $\Omega$	50 ... 20,000 $\Omega$
Resolution	up to 0.01 M $\Omega$	up to 1 $\Omega$
Max. measurement error	10% of measured value $\pm$ 50 k $\Omega$	$\pm$ 3% of measured value
Test voltage	30 V or 90 V DC	
Local alarm signalisation	13 dry contacts	
Operating temperature	0 ... 40 $^{\circ}$ C	
Storage temperature	-5 ... 60 $^{\circ}$ C	
EMC	61000-6-1/2 und 61000-6-3/4	
Data back up	Battery buffer (2 years)	
Dimensions (H x W x D)	237 x 355 x 150 mm	
Weight	approx. 3.2 kg	

## Ordering Data

### Monitoring Station RTU 101-IMS

in wall mount housing with pre-assembled ethernet cable  
30 V Test voltage  
90 V Test voltage

Order-no. 073187.000

Order-no. 073187.100

**External power supply** 230 V AC

Order-no. 062025.000

**19" 6 HU adapter** for mounting in 19" cabinets or racks

Order-no. 061713.000

# Product Information

## Monitoring Station RTU 101-IMS

For monitoring insulation- and loop resistance  
in copper cables

LANCIER Monitoring GmbH  
Gustav-Stresemann-Weg 11  
48155 Münster, Germany  
Tel. +49 (0) 251 674 999-0  
Fax +49 (0) 251 674 999-99  
mail@lancier-monitoring.de  
www.lancier-monitoring.de

### System Diagramme

