

Product Catalogue



We develop solutions together: innovative, reliable, future-proof

Rail-Module-Bus

The modular Monitoring System for DIN rail mounting

Item	Description	Order no.
RM-Basic	Basic module with Ethernet interface Power supply and display module for the RM-Bus	074001.100
RM-Iso	Insulation and Loop Resistance Measuring Module with capacitance based fault location	074003.100
THE TANK DOMESTIC	Temperature and Humidity Measuring Module	074004.000
RM-Tx	Module for reading out Tx-Bus sensors	074005.000
RM-Ax	Module for reading out Ax-Bus sensors	074006.000
RM-Loop	2-channel Loop Resistance Measuring Module to monitor remote switches for contact monitoring purposes	074008.000
RM-T2	2-channel District Heating Temperature Monitoring module for monitoring 2 PT 1000 temperaturr sensors	074700.000
RM-Fiber	Optical Fiber Attenuation Module for dark and active fibers W and A depend on laser diode and connector type	074704.0WA
RM-Fiber-4S	Optical Fiber Attenuation Module for dark and active fibers for contact monitoring of 4 CoverSensors (see page 7) W and A depend on laser diode and connector type	074705.00A
RM-Mx	Interface Module to integrate M-bus nodes into the Rail-Module-Bus	074701.000
RM-X2	2-channel Measuring Module for the evaluation of sensors for physical parameters with a standardised current and voltage interface	074708.100
Par far la far far	2-channel Insulation and Loop Resistance Measuring Module for Leakage Monitoring and Fault Localisation in Pipe Systems	074707.000



Order code RM-Fiber W: 7 = Wavelength 1310 nm Multimode 8 = Wavelength 1310 nm Singlemode 9 = Wavelength 1625 nm Singlemode A: 2 = Fiber connector ST 3 = Fiber connector SC/PC 4 = Fiber connector DIN/PC 5 = Fiber connector SC/APC 6 = Fiber connector FC/APC 7 = Fiber connector LC 8 = Fiber connector E2000 9 = Fiber connector FC/PC

Rail-Module-Bus

The modular Monitoring System for DIN rail mounting

Item	Description	Order no.
Accessories RM-Power	Voltage Converter 110 230 V AC / 24 V DC, for Basic Module	074009.000
RM-Bus Extender	RM-Bus expansion for an additional DIN-Rail module	074002.000
19"-Hutschieneneinsatz 3 HE	for the integration of RM modules into 19" racks	075416.000



Monitoring Stations

Unified Monitoring System

Item	Description	Order no.
Monitoring Station RTU	Modular system in 19" housing for universal monitoring tasks with 12 slots for measurement cards (not included) Included standard modules: power supply, CPU card, CAN bus, TCP/IP communication interface 38 72 V DC (DC/DC power supply unit) 100 250 V AC/45 65 Hz (AC/DC power supply unit)	067400.000 067400.008
Monitoring Station RTU 101-IMS	Compact system in wall housing for insulation and loop resistance monitoring, MOD-bus compatible, Display+control panel, 10 measuring channels, 13 alarm contacts, Weasuring/Supply voltage. With pre-assembled ethernet cable 30 V/ 2172 V DC 90 V/ 2172 V DC	073187.000 073187.100
Monitoring Station MUX 101-DW	Economically prized compact system in wall housing for universal monitoring tasks with 16 measuring channels for 127 addressable sensors each, with pre-assembled ethernet cable Supply voltage 38 72 V DC	072681.000

Fiber Optic Monitoring Options for modular Monitoring Station RTU

Item	Description		Order no.
OTDR Module	OTDR with 3 wave lengths, 1310/1550/1625 nm, singlemode Dynamic range 45/45/43 dB Laser class IEC 60825-1:2001 class 1M other types of OTDR on request		074522.357
Optical Switch Module	For 2 to 200 fiber connections incl. interface card for RTU and connection cable Size: 1 HU (44,3 mm) per 16 channels Order no. XXX = number of switch channels Larger switch modules e.g. for PON applications of	n request	073XXX.0YY
	Available connectors:	FC/APC SC/APC SC/PC E2000 FC/PC	YY = 00 YY = 85 YY = 87 YY = 88 YY = 89

ContactAlarm Stationary 2-channel Contact Monitoring Device

Item		Description	Order no.
LANCIER	ContactAlarm 2 LTE	Battery-powered, 2-channel Contact Monitoring Device in the UMS network	
The state of the s		with LTE and GSM based alarm, display panel and 6 contact ports Supply voltage: exchangeable lithium battery, 3.6 V	
. O. O.		ContactAlarm2 LTE/UMS	076014.000

Accessories for Monitoring Stations

Measuring Cards for modular Monitoring Stations RTU and DW 1005E

Item	Description		Order no.
Measuring Card R10	for insulation and loop resistance, 10 channels with cable and terminal strip	Meas. voltage 30 V Meas. voltage 90 V	058493.000 058493.100
Measuring Card QE16	16 channels for 127 addressable sensors (Tx-b	us) each	047996.000
Anschlusskabel VK 16	for available lengths see table bottom		029943.0XX
Measuring Card C32	for 32 dry contacts		029920.000
Connection Cable VK 32	for available lengths see table bottom		029946.0XX
Measuring Card Out12	for external alarming, 12 dry contact outputs incl. connection cable VK12		058518.000
Measuring Card Ax4 for RTU only	for real-time remote monitoring of contacts at measurement points without power supply w	rith the Ax-Bus	073810.000
	Available Connection Cable Lengths 2.0 met 5.0 met 7.5 met 10.0 met	ers ers	XX = 00 XX = 85 XX = 86 XX = 87

Accessories for modular Monitoring Stations RTU

Item		Description	Order no.
	Wall Mount Cabi- net	19"/11 HU for RTU or DW 1005E and connection panel for 15 LSA+ connection strips (excl.) 19"/11 HU including wiring and mounting works for one RTU or DW 1005E and the connection panel for 15 LSA+ connection strips (instruments and wires excluded)	062526.000 062526.001
Tababababababababababa	LSA+ Connection Strip	for 10 pairs	047939.000
Timmin iminin	LSA+ Earth Con- nection Strip	for reference earth for R10 cards	059034.000
	Connection Panel 19"	for 15 LSA+ connection strips, without connection strips	047937.000

Accessories for compact Monitoring Stations RTU, Types 101

Item	Description	Order no.
External Power Supply	230 V AC	062025.000
19" 8 HU Adaptor	for mounting in 19" cabinet or rack	061713.000



Sensors

Addressable Sensors for Tx-Bus systems

Item	Description		Order no.
PTxA210PM	Addressable Pressure Sensor for Measuring range 7002100 hPa (n		054471.000
PTxA210PE	Addressable Pressure Sensor foing. Measuring range 7002100 h	r external installation in multi hous- Pa (mBar) abs.	047000.001
Accessories: Verbindungskabel 0,2 m Verbindungskabel 0,5 m Anschlusssatz	for add on mounting for add on mounting for pressurized sleeves		046983.000 059541.000 048653.000
PTxA 210	Addressable Pressure Sensor wi multi housing Measuring range 7002100 hPa (n	·	072888.000
НРТхА	Addressable High-Pressure Sens Measuring ranges 010 bar Measuring ranges 0200 bar	sor	048338.000 072013.000
TTxAM	Addressable Temperature Sensor Measuring range -20+70°C other measuring ranges upon requ		043772.000
TTxAS	Addressable Temperature Sensor Measuring range -20+70°C other measuring ranges upon requ		063601.000
HTxA5/95	Addressable Humidity Sensor Measuring range 595%. r.h.		043771.000
HTxA0/15	Addressable Humidity Sensor Measuring range 015%. r.h. for c	ompressor monitoring	063007.000
XTxA	Addressable Universal Sensor in Current measuring range: Current measuring range: Current measuring range: Voltage measuring range: Voltage measuring range: Voltage measuring range: other measuring ranges upon requirements.	0 10 mA DC 0 100 mA DC 0 1 A DC 0 1 V DC 0 10 V DC 0 100 V DC	050601.010 050601.011 050601.012 050601.020 050601.021 050601.022
MTxA	Addressable Humidity and Temperature Sensor		072759.000
CDtA 4S	Addressable Contact Sensor	in snap-on housing	073985.000
CDtA 4L	Addressable Contact Sensor	latching in snap on housing latching in multi housing	073778.000 073779.000
LID-TxA-S	Addressable RKA Light Detector for directional short circuit indicate		072203.000

Evaluation via LANCIER Tx-Bus by monitoring stations RTU equipped with QE16 card and by MUX 101-DW as well as in the Rail Module Bus.

Housing options:

S: Snap-on housing 100 x 22.5 x 75 mm, IP 20

M: Joint installation 95 x 30 x 18 mm, IP 20

E: Multi housing 165 mm, Ø 50 mm, IP 68



Sensors

Addressable MK2-Sensors embedded in the monitoring system by Mod- or Tx-Bus

Item	Description	Order no.
IsoTxA Mk2	Insulation and Loop Resistance Sensor	071676.100
FiberTxA Mk2	Optical Attenuation Sensor , 050 dB, for dark and active fibers, integrated laser diode and p	photo diode 071840.0WA
OpTxA Mk2	Optical Power Sensor , for active fibers, -5010 dBm, integrated optical coupler, broadband (1000-1600 nm)	
	Wavelengths: 1310 nm multimode (FiberTxA 1310 nm singlemode 1625 nm singlemode	only) W = 7 W = 8 W = 9
	Available connectors: SC/APC FC/APC E2000 FC/PC, others on request	A = 2 A = 5 A = 6 A = 8
Accessories Tx-Bus Interface	Internal plug-in module for connection to monitoring s DW 1005E or DW 101E (1 per Mk2-Sensor required)	ystems 071700.000
Modbus Interface	Internal plug-in module for connection to telecontrol sy RS232 interface (1 per Mk2-Sensor required)	ystems via 073601.000
Drawer 19" 1HU	Module carrier for max. three Mk2 sensors	071863.000
Wall Housing	for max. three Mk2 sensors with power supply unit 48, with power supply unit 11.	

Special Purpose Sensors

Item	Description	Order no.
Aquasensor	reports humidity and water in sleeves of fiber optic cables and locates the defective sleeve	068969.000
CoverSensor	reports the opening of doors, supply shafts etc. via fiber optic cable via copper cable	075694.000 075694.010
Float Switch	at multi housing, 5 m connection cable, opening/closing contact equipped with connecting box and casting compound	074764.000 074764.010
Float Switch-4S	at multi housing, 5 m connection cable, opening/closing contact/ line disconnection / line short-cut equipped with connecting box and casting compound	074764.004 074764.014
Float Switch with contact sensor	at multi housing, 5 m connection cable, opening/closing contact, incl. addressable contact sensor CTxA	074765.000
Sensor CAx 4S-PE	Digital Contact Sensor for real-time remote monitoring of contacts at measurement points without power supply by Ax-Bus	073809.004

Mobile Testing Equipment for Tx-Bus systems

Item	Description	Order no.
	Testing equipment for addressable sensors/LANCIER Tx-Bus incl. earphone, measurement cables and battery charger	050833.100

Pressurisation Systems

Installed Pressurisation Systems RTS

Item	Description	Order no.
	Sound proofed compressor-dryer system with air distribution mounting facility and digital control panel.	
	Fully automated remotely monitorable systems (per Ethernet) with maintenance as necessary.	
RTS 1000-PSC	Output capacity (sea level) Mounting space for digital flow meters in front door (flow meters and ACS not included) Wall mount, 230 V, single phases Equipment Lockable glass front door Control panel with PSC Maintenance signal 400 hours Compressor with electric plug	075418.000
RTS 2600-PSC	Output capacity (sea level) Mounting space for digital flow meters in front door (flow meters not included) Equipment Control panel with PSC Maintenance signal 400 hours Total flow meter Manometer for air dryer Lockable glass front door	075199.000
RTS 5200-PSC	Output capacity (sea level) 5200 l/h Mounting space for digital flow meters in front door (flow meters not included) Equipment Control panel with PSC Maintenance signal 400 hours Total flow meter Manometer for air dryer Lockable glass front door	075200.000
Accessories/Options Cyclone water separator	Air pre-dryer for use in particular humid environments	073735.172
Built-in light assembly	for fitting into RTS PSC pressurisation systems: Built-in light, mounting material and 5 m power line	075342.000
FI switch	in mounting box for installed pressurisations systems as residual current protective device	074523.000
Sensor compressor pressure	for monitoring and evaluating the compressure pressure by the PSC	073153.000
Sensor Compressor head temperature	for monitoring and evaluating the compressure head temperature by the PSC	073155.100

Pressurisation Systems

Installed Pressurisation Systems RT-UG

Item	Description	Order no.
RT-UG-PSC	Base frame with air dryer and various pneumatic elements for large output power depending on utilised compressor. Example: output power with compresor type KCT 401S 8500 l/h Equipment Floor-mounted appliance Lockable side door Control panel with PSC Options/Accessories Compressor KCT401S with sound proofed hood	075438.000 070492.000
RT-UG 10000-PSC	Base frame with air dryer and various pneumatic elements and Jun-Air compressor without sound proofed hood Output power 10000 I/h Equipment Control panel with PSC Maintenance signal 400 hours Total flow meter Manometer for air dryer Lockable side door	075438.100

Mobile Pressurisation Systems LAM

Item		Description		Order no.
	LAM 2000	Output capacity (sea level) Dismountable into 2 lightweight Modules,	2000 l/h	073139.000
		weights approx.	28 + 22 kg	

Installed Pressurisation Systems LANCIER Jun-Air Series OF-S and -ST

Item	Description	Order no.
Serie OF-S	 Soundproof compressors with extremely low noise and vibration operation Compact design Supply performance at 8 bar: 12 l/min to 35 l/min Excellent compressed air quality acc. to ISO 8573-1:2010 [1:3:1] Air tank sizes 15 l, 25 l and 40 l 	On request
Serie OF-ST	 Equipped with air-dryer Soundproof compressors with extremely low noise and vibration operation Compact design Supply performance at 8 bar: 12 l/min to 35 l/min Excellent compressed air quality acc. to ISO 8573-1:2010 [1:3:1] Air tank sizes 15 l, 25 l and 40 l 	On request

Monitoring of Pressurisation Systems

Addressable Digital Flow Meters for Pressurisation Systems

Item		Description	Order no.
	Digital Flow Meter Block	Digital flow meter block for the integration into pressurisation system cabinets equipped with 1 digital flow meter FMA 200C equipped with 2 digital flow meter FMA 200C equipped with 3 digital flow meter FMA 200C equipped with 4 digital flow meter FMA 200C equipped with 5 digital flow meter FMA 200C	064950.101 064950.102 064950.103 064950.104 064950.105
Francis Access	Digital Flow Meter FMA 200C	Extension of existing flow meter block by additional digital flow meter FMA 200C	064952.100

Installation Material for Digital Flow Meter Blocks

Item	Description	Order no.
Pneumatic Installation Kit	for one FMA 200C (output connector for new RTS equipment, 19" wall-mount cabinets and expansions)	065898.000
Common Input Air Filter KL 15	for installation into PE 10/7 hose when connecting to cable type PWE2Y (one required for each FMA 200)	071011.000
Non-return Valve	Non-return valve for hose diameter 10/7 mm Non-return valve for hose diameter 6/4 mm	057311.000 057311.066
19" Installation Kit	for one distribution block (for installation into 19" wall-mount cabinets and front doors of RTS equipment)	064955.000
Wall Mount Cabinet	Wall mount cabinet for 4 digital flow meter blocks (20 FMA 200C) Other wall mount cabinets on request	069631.004

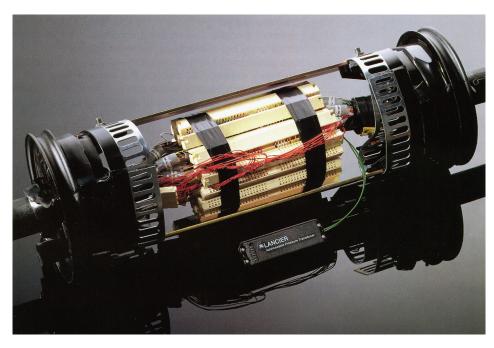
Mobile Testing Equipment for Pressurised Cable Network and Pressurisation Systems

Item	Description	Order no.
DFP	Digital Humidity and Temperature Analyser with quick connector	072773.000
Hydrotector H ₂	Cable Leak Detector incl. charging set 230 V 50-60 Hz, headphones, plunger, 2 NiCd batteries, special case Accessory	057049.100
	Tracing Gas Filling Kit for Hydrotector with single stage reducer and 5 m hose	057388.000



Material for Pressurised Cables

Item		Description	Description	
100 a reference 30/50 C 30/	Material Set for Pressure Test and Feeding Points	for cable diameter of 10 to 30 mm for cable diameter of 30 to 38 mm for cable diameter of 38 to 60 mm for cable diameter of 60 to 90 mm		028771.000 020746.000 020747.000 020748.000
	Connectors	for hoses with in Valve Connector for hoses with in Valve Connector	Priece Hose Connector with test valve for hoses with inner diameter of 7 to 8 mm falve Connector Vg 8 x 7,5, straight for hoses with inner diameter of 7 to 8 mm falve Connector Vg 8 x 7,5, bent 90° for hoses with inner diameter of 7 to 8 mm	
	Material Set for Air Blocks Self arming Glass Fiber Tape	for cable diameter of 10 to 30 mm for cable diameter of 30 to 38 mm for cable diameter of 38 to 60 mm for cable diameter of 60 to 90 mm		028767.000 028768.000 028769.000 028770.000
	Material for Air Blocks in Cables with Plastic Sheath	Tension Clamp Packing Tape	for cable diameter of 38 to 48 mm for cable diameter of 48 to 60 mm for cable diameter of 60 to 75 mm for cable diameter of 75 to 90 mm used with tension clamp for cables with smaller diameters	015463.000 015464.000 015465.000 015466.000



Monitoring Software

Unified Monitoring System UMS

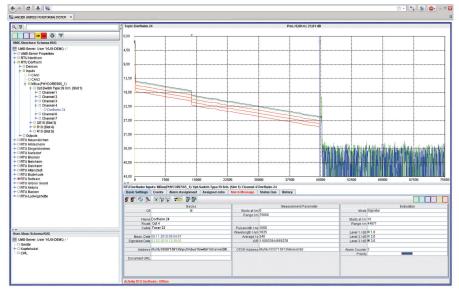
Item	Description	Order no.
Unified Monitoring System UMS	For reading out UMS Monitoring Stations as well as the evaluation and graphical presentation of the measured values and the monitored networks	
Database	Oracle Database Standard Edition, full use, 5 named users Upgrades 5 additional Clients for Oracle Database 25 additional Clients for Oracle Database	072215.000 072215.005 072215.025
UMS Server License	up to 5 Clients Upgrades up to 5 additional Clients for UMS Server up to 25 additional Clients for UMS Server	072216.000 072216.005 072216.025
UMS Client License	 1 Fiber Optic Cable (OTDR) User (limited to use OTDR, FiberTxA and OpTxA measurement) 1 Standard User (everything except OTDR measurement) 1 Full User (standard plus OTDR) 	072239.200 072239.100 072239.300
EasyView	Visualisation tool for UMS	075683.000

Unified Monitoring System UMS Lean

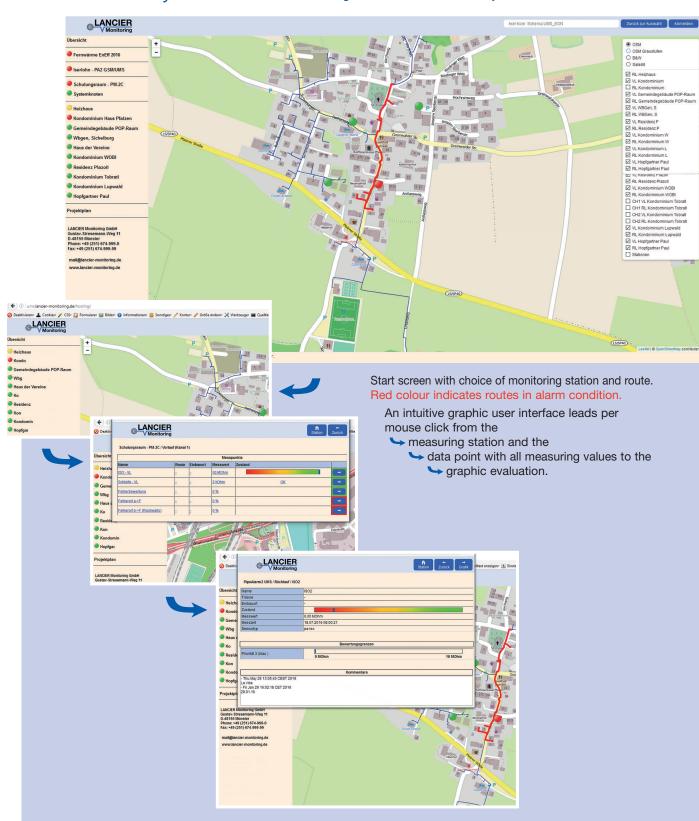
Item	Description	Order no.
UMS Lean	For reading out UMS Monitoring Stations as well as the evaluation and graphical presentation of the measured values and the monitored networks as single-user application , not expandable!	074051.000

UMS Hosting-Service

Item	Description	Order no.
UMS Hosting-Service	For the remote hosting of measuring data and their evaluation at computers of LANCIER Monitoring with world wide, password-protected access. No own resources are necessary.	
	Technical requirements and prices on request.	099467.000



UMS with EasyView - Access to all significant data with only a few mouse clicks



District Heating Monitoring

PipeMonitor

Item	Description
PipeMonitor	Multi-channel measuring system for district heating monitoring equipped with display, control panel and signal output via dry contacts.
	The system may be extended by RM-Modules (ref. page 4) for further measuring tasks.

Item	Cu*	NiCr**	HDW**
2C fix not modularly extendable		075051.202	
2C short for 1 track (flow + return line) length up to 750 m		075050.102	
2C for 1 track (flow + return line)	075050.002	075050.202	075050.302
4C for 2 track (flow + return line)	075050.004	075050.204	075050.304
6C for 3 track (flow + return line)	075050.006	075050.206	075050.306
8C for 4 track (flow + return line)	075050.008	075050.208	075050.308
10C for 5 track (flow + return line)	075050.010	075050.210	075050.310

Measurement systems for Cu, NiCrand HDW may be combined with each other

PipeAlarm

Item		Description	Order no.
LANCIER	PipeAlarm 2 LTE	Battery-powered, 2-channel district and local heating pipeline monitoring device for detached measuring points in the UMS network	
000		with LTE and GSM based alarm, pipe connection monitoring, display panel and 2 contact ports	
		Supply voltage: exchangeable lithium battery, 3.6 V	
		PipeAlarm2 LTE/UMS short (max. length of measured section NiCr 750 m)	075968.100
		PipeAlarm2 LTE/UMS (max. length of measured section NiCr 1500 m)	075968.200

Mobile Testing Equipment for district heating pipeline monitoring

Item		Description	Order no.
	PipeCheck	Hand-held measuring device for district heating pipe sensors	075163.000
	PipeCheck _{plus}	Hand-held measuring device for district heating pipe sensors with fault location (NiCr-System)	075410.000
	Acessory kit PipeCheck	comprising: 1 charging cable with plug for use in cars, 2 test tips, 2 large alligator clips, 1 test plug (1.1 M Ω / 5.8 k Ω , fault 0.1 % of m. v. each), 2 spring clips, 1 replacement magnet, 1 pipe connector mount, 1 pipe connection extension cable, 1 replacement SD memory card	075261.000

^{*)} max. length of measurement track 4.000 m,

^{**)} max. length of measurement track 1.500 m

Mounting Material for District Heating Monitoring Systems

Item	Description	Order no.
LM-2	Heat resistant cable LM-2 Two-core cable for routing monitoring sensors out of plastic sheathed pipes	075276.025
LM-4	Heat resistant cable LM-4 Four-core cable for routing monitoring sensors out of plastic sheathed pipes	075277.050
LM-RA	Pipe sensor connection LM-RA for welding onto the carrier pipe	075209.000
Junction box	With terminal strip for 8 strands up to 4 mm ² cross section Protection class IP66 according to EN60529/DIN VDE 0470-1	074895.000
Distribution box	With terminal strip for 12 strands up to 4 mm ² cross section Protection class IP66 according to EN60529/DIN VDE 0470-1	075613.000
Distribution box	With terminal strip for 16 - 34 strands up to 4 mm² cross section Protection class IP66 according to EN60529/DIN VDE 0470-1 XX = Number of terminals (16 - 34)	076206.0XX

PipeLog for contactless status recording of district heating networks by radio

Item	Description	Order no.
PipeLog LoRaWAN senso	for mobile measurement data readouts by LoRaWAN r	075834.000

PipeSens for contactless status recording of district heating networks by LogRaWAN

Item		Description	Order no.
	PipeSens Radio sensor	for mobile measurement data readouts by LoRaWAN	076262.000



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