SIEMENS



LON/LONMARK interface

NIDES.RX

Allows the integration of DESIGO[™] RXC controllers into the Landis & Staefa building management stems.

The NIDES.RX interface is used for integration of the DESIGO RXC controllers into the Landis & Staefa building management systems			
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The types can be ordered with the following designation:

NIDES.RX-CO MS2000, VISONIK and UNIGYR plants NIDES.RX1...4* NITEL plants

* = depending on language version

Mechanical design



Terminal layout





Abbrev.	:Pin:	Description:
RD	2	Receive Data
TD	3	Transmit Data
DTR	4	Data Terminal Ready
GND	5	Signal Ground
DSR	6	Data Set Ready
RTS	7	Request To Send
CTS	8	Clear To Send
51	+	
52	-	
53	GND	
54	SHLD	
	Abbrev. RD TD DTR GND DSR RTS CTS 51 52 53 54	Abbrev.:Pin: RD 2 TD 3 DTR 4 GND 5 DSR 6 RTS 7 CTS 8 51 + 52 - 53 GND 54 SHLD

Pin layout of COM2 and COM3/RS232(*): DCD 1

DCD	1	Data Channel Received Line Signal Detector
RD	2*	Receive Data
TD	3*	Transmit Data
DTR	4	Data Terminal Ready
GND	5*	Signal Ground
DSR	6	Data Set Ready
RTS	7*	Request To Send
CTS	8*	Clear To Send

Pin layout of SERVICE connector



Software and firmware versions

The NIDES.RX supports the following software versions.

- MS2000 V3.0 and higher
- TS1500 V1.4 and higher
- VISONIK system: BPS V16, DCS V16 for VISONIK Insight, DCS V18 for DESIGO INSIGHT
- UNIGYR systems V7 and higher

Note: For more information regarding engineering and commissioning of the NIDES.RX interface see the basic document, CA2Z3299E.

Power supply			
Nominal voltage	AC 24 V, 48 62 Hz		
– Admissible tolerance	±15 %		
Power consumption	Max. 6 VA		
Connections			
COM1	RS485		
Connection to MS2000 (NCRS)	Max. 9600 baud		
	Half-duplex		
	Automatic baud rate detection,		
	Electrically isolated		
COM1	RS232		
Connection to VISONIK (PRV2)	Max. 9600 baud		
(or to a VT100 terminal)	Half-duplex		
	Automatic baud rate detection		
	Standard DB9-S male connector		
COM2	RS232		
Connection to MS1000 / TS15000	Max. 9600 baud		
	Full-duplex		
	Automatic baud rate detection		
	Standard DB9-S male connector		
COM3	RS232		
(spare)	Max. 9600 baud		
	Half-duplex		
	Automatic baud rate detection		
	Standard DB9-S male connector		
LON bus			
 Interface type 	LON, electrically isolated		
- Transceiver	FTT-10/A		
 Baud rate 	78 kBit/s		
 Bus topology, bus connection 	See "Installation guide" CA2Z3802E		
Service socket	Service terminal (bus connection including		
	power supply)		
Weight excluding packaging	1.15 kg		
Dimensions (W x H x D)	236 x 170 x 51 mm		
Mounting	Snap-mounted on DIN rails or screwed		
-	to a flat surface		
Safety			
Product safety	EN 61010-1		
- Overvoltage category	II; with transient overvoltages up to 2500 V		
- Contamination level	2; normal, non-conductive contamination		
Electrical safety	SELV-E (PELV to IEC 364-4-41)		
General ambient conditions			
Usage	– For indoor use		
-	 In control panels 		
	– Up to 3000 m above sea level		
Temperature range:			
– Operation	5 40 °C		
– Storage	– 25 70 °C		
Ambient humidity	Max. 65 % rh average over year,		
-	non-condensing		
Conformity	Meets the requirements for CE marking		

Standard RS232 cables can be used for COM1/RS232, COM2/RS232 and COM3/RS232.

Connection to an NCRS trunk

Use a cable according to the wiring diagram below to connect the NIDES.RX to a trunk of the NCRS.







PRU2..., PRU10.64 or PRS10.82 RX-Master PRx E11 PFL1.1

UN UP

UN UP (FLN)(FLN



N2

Connection to the LON bus

The two LON data cables are connected to the LON terminals of the NIDES.RX (interchangeable connection).



Connection to the power supply

The NIDES.RX is connected to an AC 24 V power supply.



Mounting

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The NIDES.RX can be fixed directly to a flat surface with four screws, or snap-mounted on DIN rails