## RAD-SYS-NEMA4X...

# NEMA 4X enclosure with UPS DC power supply for wireless systems

### INTERFACE

Data Sheet 2484\_en\_A

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#### 1 Description

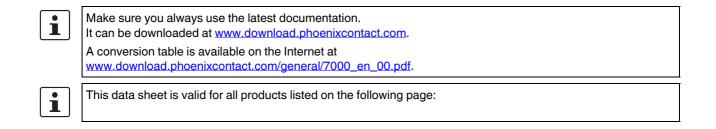
To simplify the selection and installation of wireless devices, Phoenix Contact now offers the RAD-SYS-NEMA4X-900 enclosure system to complement the RAD series of industrial radios.

The prewired control cabinet provides a 24 V DC power supply, backup UPS system, surge protection for the line power and antenna connections, and terminal blocks for easy connectivity, all mounted on standard NS35 mounting rail. The 2 A power supply provides sufficient power for the radio and several additional components, if necessary, which can be mounted on the 25 cm (10 in.) of available rail mounting space.

The selected components provide a robust, consistent signal acquisition system for remote data collection. Simply add a radio and antenna, and connect the sensors to complete the system.

#### 2 Features

- 24 V DC power supply/UPS and external 24 V backup battery
- 2 amp fuse
- MAINS-PLUGTRAB surge protection for the line input (100 - 240 V AC)
- COAXTRAB surge protection for the antenna connection
- Prewired cabinetry with extra terminal blocks for simple, flexible installation
- NEMA 4X enclosure provides protection against the weather
- Panel and pole mounting kits available







## 3 Ordering Data

#### Products

Description	Туре	Order No.	Pcs./Pkt
Enclosure, for 900 MHz radio includes power supply, UPS, battery back-up and surge protection	RAD-SYS-NEMA4X-900	2917188	1
Accessories			
Description	Туре	Order No.	Pcs./Pkt
Pole mounting kit	RAD-SYS-BKT	2900038	1
<b>One-way wireless system,</b> for one 4-20 mA and two discrete signals, 900 MHz	RAD-ISM-900-SET-UD-ANT	2867102	1
Two-way transceiver set, for one 4-20 mA in/out and two discrete signals in/out. Accepts expandable I/O modules, 900 MHz	RAD-ISM-900-SET-BD-BUS	2867089	1
Multipoint-to-point transceiver set, accepts expandable I/O modules, 900 MHz, custom order		5605715-XXXX	1
RS-232 serial data radio, 900 MHz	RAD-ISM-900-RS232-BD	2867555	1
RS-232/485/422 serial data radio, 900 MHz	RAD-ISM-900-DATA-BD	2867131	1
RS-232/485/422 serial data radio, 900 MHz, accepts expandable I/O modules	RAD-ISM-900-DATA-BD-BUS	2867115	1

#### 4 Technical Data

General Data		
Dimensions (H x W x D)	359 x 311 x 156 mm (14.1 x 12.3 x 6.1 in.)	
Material	Fiberglass	
Conduit connections	1/2-in.	
Antenna connection	N, female	
MINI-DC-UPS/24DC/2 (Order No. 2866640)		
Input voltage range nominal	100 - 240 V DC	
Current consumption	0.6 A @ 230 V AC 1.0 A @ 115 V AC	
Output current	2 A	
Nominal output voltage	24 V DC	
Output voltage range (normal mode)	22.5 - 29.5 V DC	
Output voltage range (buffer mode)	27.2 - 19.2 V DC	
MINI-BAT/24DC/0.8AH (Order No. 28666666)		
Nominal output voltage	24 V DC	
Nominal capacity	0.8 Ah	
PT 2-PE/S-230AC-ST (Order No. 2839347)		
Maximum continuous operating voltage	253 V AC	
Leakage current @ MCOV (L-N)	<u>≤</u> 1.1 mA	
Leakage current to ground	≤ 1.5 μA	
Maximum discharge surge current (8/20 µs) per mode	10 kA	

#### CN-UB-280DC-SB (Order No. 2818148)

Maximum continuous operating voltage	280 V DC/195 V AC
Maximum continuous operating current	5 A/25°C
Operating current I <sub>C</sub> at U <sub>C</sub>	≤1 μA
Nominal discharge surge current (8/20 µs)	20 kA
Output voltage threshold at 1 kV/µs	≤ 700 V
Protection level	≤700 V
Response time	≤ 100 ns
Cut-off frequency (3 dB) in a 50 $\Omega$ system	> 3 GHz
Standing wave frequency (SWR) in a 50 $\Omega$ system	$\leq$ 1.1 to 2.0 GHz
Permanent HF power at SWR=1.1/ $\infty$ in a 50 $\Omega$ system	700 W/200 W
Capacitance (typ.)	1.5 pF
Connection	N-type connector 50 $\Omega$