



NERS

NETWORK EXTENDER RADIO SYSTEM

- Monitor moveable or remote machinery without cables
- Fully specified, economical system
- Reliable 900 MHz radio system with up to 0.5W output power
- Available in Cast Aluminum Explosion/Dust-Ignition Proof or Plastic Dust/Water Protected Enclosures
- Intrinsically Safe, Class II, Group G, Divisions 1 & 2 rated antenna coupler
- Internal RS-232 connector for radio configuration
- Direct connection to IS Bus Converters

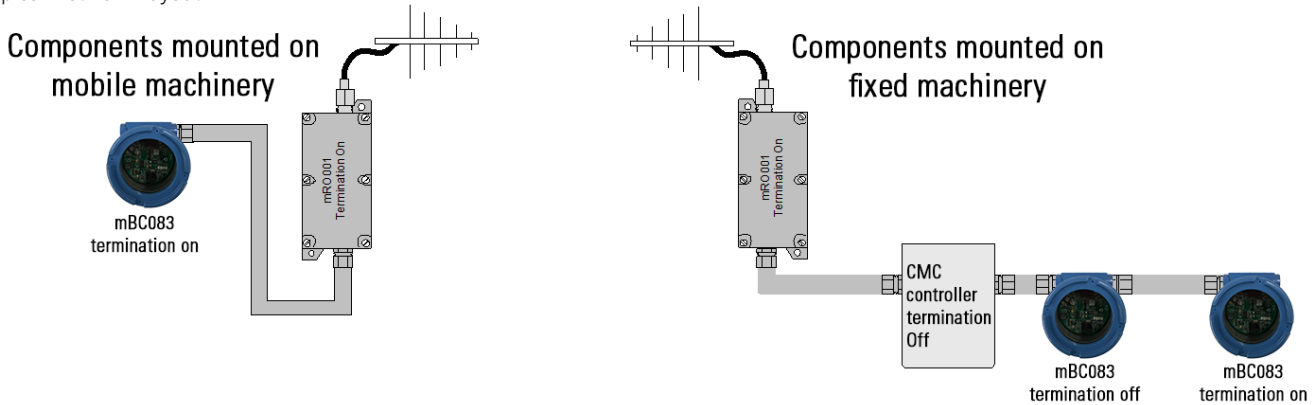


Network Extender Radio

The NERS01 is a fully package 900 MHz radio bus extender for CMC Modbus RS-485 networks. The system is designed to extend the network for the mBC083 and mBC081 Bus Converters. The radio telemetry is housed either a Dust Ignition Proof enclosure for hazardous location or Type 4X enclosure for Safe Area. The system has an

optional DC generator to provide power on trippers and other off grid equipment. Typically used for monitoring belt trippers and other moveable devices that are not easily cabled. The system can also be used to extend the network between buildings and grain bins or where cabling is impractical.

Typical Network Layout



NERS01 DS 0123

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SPECIFICATIONS	DESCRIPTION	CHARACTERISTIC
GENERATOR INPUT	Voltage Current	30-50VDC (60VDC absolute maximum) 250mA max
OPTIONAL POWER SUPPLY	Power Supply Frequency Power Requirements In Rush Current	90 - 264VAC SELV 47 - 63Hz 10W 15A @ 120VAC, 30A @ 240VAC
OPTIONAL GENERATOR	Output Voltage Maximum Output Current Speed Range	30 - 50VDC (Set by pulley/gear ratio) 0.5A DC 300 - 500 RPM (450 RPM nominal)
RADIO	Frequency Power Data Rate Range	900MHz Up to 0.5W 19.2k Baud Up to 1.75 miles (2.8km) with high gain antenna
ENVIRONMENT	Temperature Relative Humidity HAZLOC Rating	-40°F to +158°F (-40°C to +70°C) 0 to 95% non-condensing Class I, II Divisions 1 & 2 Groups C, D, E, F, G
HAZLOC DIMENSIONS	Length Width Height Mounting Holes	9.75" (248mm) allow for antenna connection 4.0" (102mm) allow for power/network entry 4.25" (108mm) 2 x 5/16" (8mm) 1/4" (M6) clearance
NONHAZ DIMENSIONS	Length Width Height	11.4" (290mm) allow for antenna connection 7.5" (190mm) allow for power/network entry 3.9" (100mm)

NERS01 (P/N 11330) HAZLOC Network Extender Radio System EP/DIP Cast Aluminum Enclosure
 NERS02 (P/N 11830) NONHAZ Network Extender Radio System Type 4X Plastic Enclosure
 P/N 11344 optional Power Supply, SELV/PELV required for stationary applications
 P/N B-481445X7284 optional Generator, 180VDC, 0.125HP Class I Groups C, D and Class II, Groups F, G
 P/N 11341 Yagi Antenna, 900MHz, 9dBi long range directional
 P/N 11345 Omni Antenna, 800/900MHz, 6dBi base station