

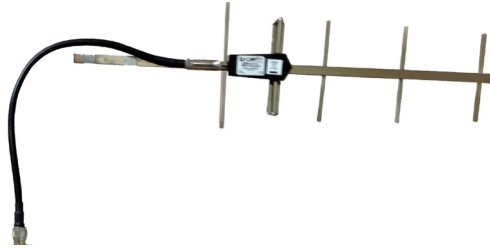


NERS01

NETWORK EXTENDER RADIO SYSTEM



Network Extender Radio



Optional YAGI Antenna



Optional OMNI Antenna

- Monitor moveable or remote machinery without cables
- Fully specified, economical system
- Reliable 900 MHz radio system with up to 0.5W output power
- Optional DC generator to supply power
- Optional DIN mount power supply for 120/240VAC operation
- Cast aluminum, Class II, Group G, Divisions 1 & 2 rated enclosure
- Intrinsically Safe, Class II, Group G, Divisions 1 & 2 rated antenna coupler
- Optional Omni directional antenna
- Optional 9.0DBi Yagi directional antenna
- Internal RS-232 connector for radio configuration
- Direct connection to CMC bus converters

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.

NERS01 DS 1022

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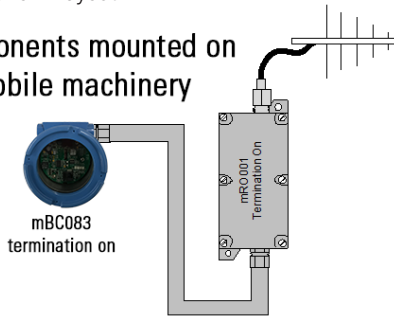


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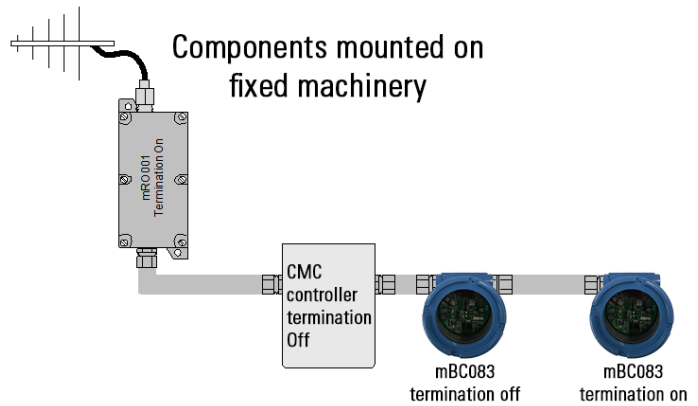
NETWORK EXTENDER RADIO SYSTEM

Typical Network Layout

Components mounted on mobile machinery



Components mounted on fixed machinery



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

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