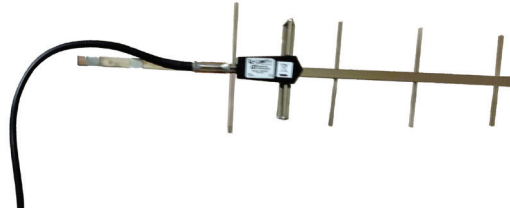


NERS01

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 1W 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

Product Description

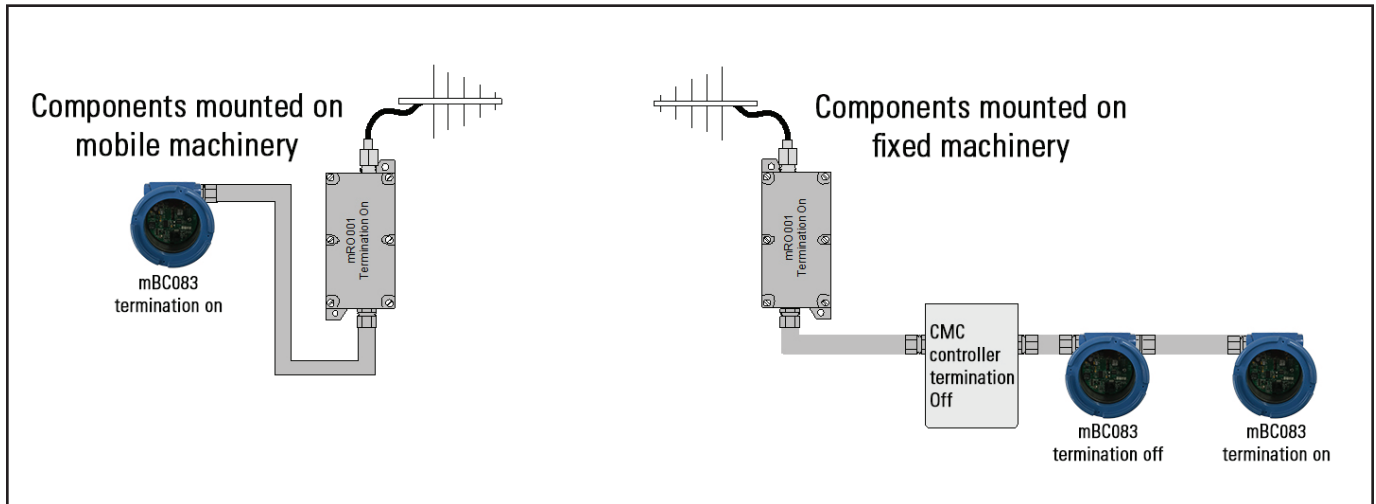
The NERS01 is a fully package 900 MHz radio bus extender for CMC Modbus RS-485 networks. The system is designed to extend the network for the mBC083 and mBC081 Bus Converters. The system is housed in a Class II, Group G, Divisions 1 & 2 hazardous locations enclosure and can be mounted in a hazardous area. The system has an optional DC generator to provide power on trippers and other off grid equipment.

Typical Applications

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 NETWORK EXTENDER RADIO SYSTEM

Typical Network Layout



Specifications	Description	Characteristic
Generator Input	Voltage	30 - 50 VDC (60VDC absolute maximum)
	Current	250 mA max
Optional Power Supply	Power Supply	90 – 264 VAC
	Frequency	47 – 63 Hz
	Power Requirements	10W
	In Rush Current	15A @ 120VAC, 30A @ 240VAC
Optional Generator	Output Voltage	30 – 50 VDC
	Maximum Output Current	0.5ADC
	Speed Range	300 – 500 RPM (450 RPM nominal)
Radio	Frequency	900 MHz
	Power	Up to 1W
	Baud Rate	19.2 kbaud
	Range	Up to 40 miles with high gain antennas
Environment	Recommended Operating Range	-40°F to 158°F (-40°C to +70°C)
	Relative Humidity	0 to 95% non-condensing
	Rating	Class II, Group G, Divisions 1 & 2
Dimensions	Length	9.5" (245mm)
	Width	3.5" (90mm)
	Depth	4.5" (110mm)

NERS01 DS A00

888.421.4425 | sales@cmciel.com

AGGROWTH.COM | CMCIEL.COM

