

Facility Explorer

## Network Room Modules

### Description

Network Room Modules (NRMs) are electronic, wall mount temperature sensors designed to work directly with Facility Explorer field controllers.

All NRM models monitor room or space temperature. In addition, you can order NRMs with a backlit Liquid Crystal Display (LCD) to display the room temperature and local setpoint. Graphical display symbols can indicate fan speed selection and the need for maintenance. Optional operating controls include a dial to locally adjust the space temperature setpoint, a push button to manually override the fan speed, and a push button to select °F or °C units of measure.

The NRM connects from the Remote Display link of the Facility Explorer field controller. You can locate terminals in the mounting base for ease of wiring. The NRM is enclosed in an attractively styled plastic housing, which easily mounts on a wall.

Refer to the *Network Room Module Product Bulletin (LIT-12011257)* for important product application information.

### Features

- attractively styled housing
- built-in platinum temperature sensor
- optional backlit LCD
- optional operating controls configurable via software
- °F or °C toggle button



Network Room Modules

### Repair Information

If the Network Room Module fails to operate within its specifications, replace the unit. For a replacement sensor, contact the nearest Johnson Controls® representative.

### Selection Charts

#### Network Room Module (Available in Europe)

Product Code Number	Description
LP-NRM001-000C	Network Room Module: Temperature sensor only, no LCD, no setpoint dial, 80 x 80 mm (3.15 x 3.15 in.) enclosure
LP-NRM002-000C	Network Room Module: Temperature sensor with LCD, setpoint dial, temporary occupancy button, 80 x 80 mm (3.15 x 3.15 in.) enclosure
LP-NRM003-000C	Network Room Module: Temperature sensor with LCD, setpoint dial, temporary occupancy button, fan speed override button, 80 x 80 mm (3.15 x 3.15 in.) enclosure
TM-9100-8900	Special tool (used to open module)

#### Network Room Module (Available in North America)

Product Code Number	Description
LP-NRM001-000C	Network Room Module: Temperature sensor only, no LCD, no setpoint dial, 80 x 80 mm (3.15 x 3.15 in.) enclosure
LP-NRM052-000C	Network Room Module: Temperature sensor with LCD, setpoint dial, temporary occupancy button, °C/°F button, 80 x 80 mm (3.15 x 3.15 in.) enclosure
LP-NRM053-000C	Network Room Module: Temperature sensor with LCD, setpoint dial, temporary occupancy button, °C/°F button, fan speed override button, 80 x 80 mm (3.15 x 3.15 in.) enclosure
LP-NRM101-000C	Network Room Module: Temperature sensor only, no LCD, no setpoint dial, 120 x 80 mm (4.72 x 3.15 in.) enclosure
LP-NRM152-000C	Network Room Module: Temperature sensor with LCD, setpoint dial, temporary occupancy button, °C/°F button, 120 x 80 mm (4.72 x 3.15 in.) enclosure
LP-NRM153-000C	Network Room Module: Temperature sensor with LCD, setpoint dial, temporary occupancy button, °C/°F button, fan speed override button, 120 x 80 mm (4.72 x 3.15 in.) enclosure
T-4000-119	Allen-head wrench (used to open module)

#### Network Room Module Mounting Kits

Product Code Number	Description
TM-1100-8931	Plastic base for surface mounting (white)
TM-9100-8941-W	Recessed wall box mounting kit (white)

## Network Room Modules (Continued)

### Technical Specifications

Network Room Module	
<b>Product Codes</b>	LP-NRMxx-xxxC
<b>Power Supply Requirements</b>	14.5 to 26 VDC (15 to 18 VDC from connected FX controller) at 500 mW maximum, or 24 VAC ± 15%, 50/60 Hz, 1 VA maximum, Class 2 or Safety Extra Low Voltage (SELV)
<b>Ambient Operating Conditions</b>	0 to 50°C (32° to 122°F), 10 to 95% RH noncondensing (and maximum 30°C [86°F] dew point)
<b>Ambient Storage Conditions</b>	-20 to 70°C (32° to 122°F), 10 to 95% RH noncondensing (and maximum 30°C [86°F] dew point)
<b>Dimensions (H x W x D)</b>	80 x 80 x 35 mm (3.15 x 3.15 x 1.4 in.) or 120 x 80 x 35 mm (4.72 x 3.15 x 1.4 in.)
<b>Weight (with Package)</b>	0.2 kg (7 oz.), 80 x 80 mm (3.15 x 3.15 in.) housing or 0.25 kg (9 oz.), 120 x 80 mm (4.72 x 3.15 in.) housing
<b>Electrical Terminations</b>	Terminal block with screw terminals in base for 1.5 mm <sup>2</sup> /16 AWG (maximum) wires. Recommended tightening torque 0.5 N·m
<b>Temperature Sensor</b>	Pt1000 Class A, DIN EN 60751 Range 0 to 40°C (32 to 104°F) Accuracy better than ±0.5°C (±0.9°F) with a resolution of 0.1°C (0.2°F) Suitable for residential and commercial office environments only
<b>Display LCD</b>	Display with three digits and six symbols (not applicable for temperature sensor only models)
<b>Communications Interface</b>	Connects to FX field controller Remote Display Link. Serial Bus RS-485 N2 Open Protocol at 9600 baud
<b>Mounting</b>	Direct surface mount Plastic base for surface mount with wiring conduits, recessed wall box and panel mounting kits available as orderable accessories
<b>Housing</b>	Material: ABS + polycarbonate, UL94-HB flammability rating Protection: IP30 (CEI/EN60529)