

PR400 Portable Two-Way Radio

- **LTR Site Information**

- Area ID
- Disconnect Words
- Data Invert Rx/Tx

- **LTR Repeater Information**

- Repeater Number
- Interconnect option
- Channel Spacing (12.5kHz / 20kHz / 25kHz)
- Companding mode
- Rx/Tx Frequency (MHz) and Offset
- Reference Frequency (MHz)

- **LTR Talkgroup Information**

- Home Repeater designation
- Scan List Edit
- Call Light
- Telephone Interconnect
- Cue Tone
- Rx ID Range
- Tx ID Range
- Tx Inhibit ID Range
- MDC Signaling System
- Power Level (High or Low)

- **LTR Universal ID (UID) Information**

- Rx ID Number
- Call Light
- Tx Inhibit



PR400 Intrinsically Safe

The PR400, Intrinsically Safe Approved Portable Radio Unit, meets Factory Mutual approvals for safe operation in certain chemical or gaseous environments.

Intrinsically Safe FMRC approval labels are attached to the radio and battery to identify the unit as being FM Approved for specified hazardous atmospheres. This label specifies the hazardous Class/Division/Group along with the part number of the battery that must be used. The Approval mark is shown on the right.

The hazardous location ratings are divided into Class, Division, and Group to indicate the existence of flammable gases or vapors, ignitable dust, fibers, or filings under normal or unlikely conditions of operation.



APPROVED

PR400 Intrinsically Safe (Cont.)

The PR400 portable radio, when properly equipped with the approved battery NTN4852, is FM Approved by Factory Mutual Research Corporation (FMRC) as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F, G. They are also approved for non-incendive use in Class I, Division 2, Groups A, B, C, for use as shown in the tables below:

Classes

The classes define the general nature of hazardous material in the surrounding atmosphere.

Class	Hazardous Material in Surrounding Atmosphere
Class I	Hazardous because flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures.
Class II	Hazardous because combustible or conductive dusts are present.
Class III	Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures. (Group classifications are not applied to this class.)

Divisions

The division defines the **probability** of hazardous material being present in an ignitable concentration in the surrounding atmosphere.

Division	Presence of Hazardous Material
Division 1	The substance referred to by class is present during normal conditions.
Division 2	The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.

Groups

The group defines the hazardous material in the surrounding atmosphere.

Group	Hazardous Material in Surrounding Atmosphere
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein.
Group C	Ethyl and ethylene or gases of equivalent hazard.
Group D	Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, natural gas, naphtha, propane or gases of equivalent hazard.
Group E	Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment.
Group F	Carbonaceous dusts, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sensitized by other material so they present an explosion hazard.
Group G	Flour dust, grain, wood, plastic and chemicals.

PR400 IS Accessories

Use of any unapproved combination of portable radio, battery, and accessories will negate the FM Approval and the PR400 will not be Intrinsically Safe for that configuration.

Headsets and Accessories:	
BDN6647	Medium Weight Single Muff Headset with Boom Microphone (PR400 - Intrinsically Safe (FM))
Earpieces:	
HMN9754	2 Piece Surveillance Kit, with Microphone and PTT Combined, Beige (2-wire - rubber eartip style - Resale Packaging available through RPSD) (PR400 - Intrinsically Safe (FM))
HMN9752	Earpiece with Volume Control (single wire). Beige (PR400 - Intrinsically Safe (FM))
HMN9727	Earpiece without Volume Control, Beige (single wire - Resale Packaging available through RPSD) (PR400 - Intrinsically Safe (FM))
AARLN4885	Receive-Only Foam Earbud with 3.5mm plug (for use with the Remote Speaker Microphone or Public Safety Microphone) - Intrinsically Safe (FM)
RLN4941	Receive-Only Earpiece with translucent tube, rubber eartip and 3.5mm plug (for use with the Remote Speaker Microphone or Public Safety Microphone)
WADN4190	Receive-Only Flexible Ear Receiver to be used with the Remote Speaker Microphone or Public Safety Microphone - Intrinsically Safe (FM)
PMLN4620	D-Shell Receive Only Earpiece with 3.5mm plug to be used with the Remote Speaker Microphone or Public Safety Microphone - Intrinsically Safe (FM)



RLN4941



PMLN4620



AARLN4885

PR400 IS Accessories (Cont.)

Use of any unapproved combination of portable radio, battery, and accessories will negate the FM Approval and the PR400 will not be Intrinsically Safe for that configuration.

Battery:	
NNTN4852	NiMH, 1300 mAh, 7.5V Battery - Intrinsically Safe (FM) Rated Intrinsically Safe for use in Division 1, Classes I, II, III, Groups C, D, E, F and G.
Microphones:	
PMMN4013	Remote Speaker Microphone with Ear Jack, Coiled Cord and Swivel Clothing Clip Intrinsically Safe (FM)
PMMN4029	Remote Speaker Microphone with IP57 Rating, Coiled Cord and Swivel Clothing Clip Intrinsically Safe (FM)
Ear Microphones and Accessories:	
BDN6646	Ear Microphone with PTT Interface Module (PR400 - Intrinsically Safe (FM))
BDN6706	Ear Microphone with PTT & VOX Interface Module (External VOX included-selectable switch for PTT or VOX) (PR400 - Intrinsically Safe (FM))
0180358B38	Finger Push to Talk Switch for Ear Microphone System - Intrinsically Safe (FM)
0180300E83	Body Switch Push to Talk for Ear Microphone System - Intrinsically Safe (FM)



NNTN4852



PMMN4013

PR400 Vertical Markets



- **Agriculture**
- **Hospitality**
- **Light Construction**
- **Light Industrial**
- **Manufacturing**
- **Public Administration**
- **Delivery Services**
- **Security**
- **Taxi and Limousine Services**
- **Transportation/Fleet**
- **Utilities**