

PREDATOR BI-DIRECTIONAL RADIO COMMUNICATOR



When the signal MUST reach the monitoring centre, Predator PLATINUM is your only choice. Its receiver not only checks that the frequency is clear, after transmission it expects an acknowledgement from the base before it is prepared to stop transmitting the signal. It boasts all the features expected of such a unit, ranging from being PC Programmable to Mains Failure and Restore, Self test, Battery low, Prioritized inputs, Programmable Positive/Negative Trips and many more. We have simplified configuration, installation and created a robust unit which will go on and on and on... Would you expect any less from IRC?

FEATURES

- High Specification Bi Directional 2 Way Communicator
- PC Programmable Inputs / Outputs with built in Remote Panic Receiver
- Installer Programmable via PC or Handheld Programmer with Self Tuning Electronic Circuitry, permitting easy stocking
- Designed to meet ETSI (European Telecommunications Standard Institute) Specification
- Latest FET Technology with Selectable Power Output 5 -15 Watt
- Proven Reliability with Antenna Stable Design
- Installer Friendly with LED Status Indicators
- 8 Prioritized Industry Standard Inputs/Outputs upgradable to 48 I/O's
- Varying Number of Transmissions based on Alarm Priority and Type
- Staggered Transmissions intervals based on ID code
- Delay on Alarm Input to cater for Siren Annunciation
- Delay on Main Fail Input to cater for supply fluctuations and to minimize network clashes
- Periodic Self Test, Power Restored and Battery Low Alarms
- Excellent Lightning Protection
- Improved Reverse Polarity Protection
- Lowest Standby and Transmit Current Consumption
- Wide Supply Voltage
- Short Transmission Time
- Small Footprint

Your Safety
our concern

IRC
INSTRUMENT
AND RADIO CORPORATION

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PRODUCT SPECIFICATIONS

Predator Series Communicators and Keyring Remote Control

Item	Transmitter	Transceiver	Keyring Remote
Frequency Range	132 - 175 MHz	132 - 175 MHz	132 - 175 MHz
Channel Spacing	12.5KHz / 25 KHz / 6.25 KHz	12.5KHz / 25 KHz / 6.25 KHz	12.5KHz / 25 KHz / 6.25 KHz
Power Output	5Watt / 1-15 Watts Programmable	5Watt / 1-15 Watts Programmable	.1uW
Operating Voltage	9.6 to 15 Volts D.C.	9.6 to 15 Volts D.C.	12 Volts D.C.
Modulation	FM	FM	FM
Frequency Tolerance	> 5 ppm	> 5 ppm	> 5 ppm
Spurious Emissions - Harmonic	> 60dB	> 60dB	> 60dB
Spurious Emissions - Non Harmonic	> 70dB	> 70dB	> 70dB
Receiver Co Channel Rejection		6dB	
Receiver Sensitivity		-118dBm / 12dB Sinad	
Receiver Adjacent Channel Selectivity		-60dB	
Receiver Spurious Responses		better than -60dB	
Deviation	1.5 to 5KHz (adjusted automatically)	1.5 to 5KHz (adjusted automatically)	1.5 to 5KHz
Temperature Range	-10 to + 60 degC	-10 to + 60 degC	-10 to + 60 degC
Class of Emission	16F2D	16F2D	16F2D
Adjacent Channel Power	as per ETSI 300-086	as per ETSI 300-086	
Antenna Impedence	50 Ohm	50 Ohm	50 Ohm
Current - Standby	100uA	30mA	0mA
Current - Transmit 5 Watts	1.0 Amp	1.0 Amp	1uA at rated power
Current - Transmit 15 Watts	2.5 Amp	2.5 Amp	
Dimensions	100mm(w) x 80mm(h) x 35mm(d)	106mm(w) x 114mm(h) x 42mm(d)	35mm(w) x 67mm(h) x 14mm(d)
Mounting	2 X 7mm keyholes	2 X 7mm keyholes	Keyring
Antenna Socket	Clamp Terminal	Clamp Terminal	Internal Antenna
I/O Connections	Screw Terminals	Screw Terminals	Push Button
Transmission Duration	< 300mS	< 300mS	< 300mS
Signal Composition	5 digit code + 16 different telemetry signals as programmed by the installer	5 digit code + 16 different telemetry signals as programmed by the installer	5 digit code + 3 different telemetry signals as programmed by the installer
Operation on change of State of an Alarm Input	Transmits alarm signal up to 9 times (programmable) at staggered time intervals (based on the ID Code)	Checks and waits for channel to be free and only then transmits the signal. Requires a kiss off (acknowledgement) from base. If none is received within 1.5 sec, repeats procedure up to 9 times (programmable). Last transmission is sent irrespective of busy channel	Transmits signal and illuminates the LED indicator. Panic message can be automatically repeated up to 3 times
Operation on Instruction received from the base station	N/A	Responds with an acknowledgement after performing the required action on the output pin.	N/A
Operation on Interrogation from the base station	N/A	Responds with the status of all telemetry I/O's and battery high/low	N/A
Operation on Panic from Keyring	N/A	Transmits Remote Panic Alarm Message	N/A
Operation on Instruction from Keyring		Changes the state of the Telemetry Output	
Operation on Arm/Disarm from Keyring	N/A	Changes Arm/Disarm state & transmits the change of state to the control room	N/A
Standard Features	8 Digital Telemetry I/O's Operating/Transmit LED's Reverse Polarity Fuse	8 Digital Telemetry I/O's Operating/Transmit/Channel Busy LED's Reverse Polarity Fuse	3 Programmable Buttons Transmit LED
Programmable Options	Frequencies All Telemetry I/O for Hi/Lo/Both Trip Certain Telemetry I/O's as Outputs Transmitter PreAamble Time Group Membership Number of reattempts Keypad Arm/Disarm Live Panic Input Alarm Input Filter Siren Output with max on time Strobe Lamp Output Silent / Loud Panic	Frequencies & Alternate frequency All Telemetry I/O for Hi/Lo/Both Trip Certain Telemetry I/O's as Outputs Transmitter PreAamble Time Group Membership Number of reattempts Keypad Arm/Disarm Live Panic Input Alarm Input Filter Siren Output with max on time Strobe Lamp Output Silent / Loud Panic Over the Air Arm/Disarm	Frequency Button 1 Frequency Button 2 & 3 Message Button 1 Message Button 2 Message Button 3 Number of Transmissions

Measurements in accordance with ETS 300-086

Due to our continued effort to improve our products we reserve the right to change specifications without notice