

INOVONICS®
HIGH PERFORMANCE WIRELESS



TAPWATCH™
WIRELESS SUBMETERING

FA5570

Installation Instructions

Frequency Agile® 900MHz

Intelligent Repeater

Interior Installation Housing

Product Description

The FA5570 is a sophisticated repeater that receives, decodes, and re-transmits signals from TapWatch Submetering transmitters. It acts as a "range extender" for any decodable TapWatch transmission. The FA5570 is intended for quick and easy indoor installation. (For outdoor installation, please refer to the FA5575 Intelligent Repeater.)

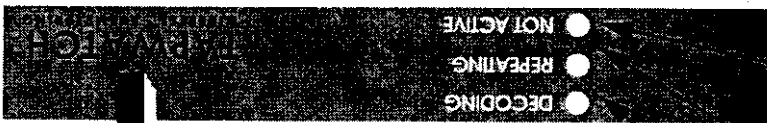
* The FA5570 works with enhanced numbering TapWatch transmitters produced after June 1, 1998. For standard (original) TapWatch transmitters, FA5525 repeaters are required.

Specifications

Housing dimensions: 6.38" x 3.60" x 1.10"
Weight: 6.9 oz.
Power requirement: 12VAC to 20VAC
(Optional) Backup battery: 12VDC
Low voltage threshold: 10.5-11.5VDC
Receiver type: narrow band spread spectrum
Operating frequency: 902-928 MHz
Operating Environment: 32°-122°F (0-50°C),
up to 95% relative humidity
(non-condensing)

- "AC POWER" and "BACKUP POWER" LEDs show repeater power source.
- "DECODING" indicates that the repeater is receiving RF energy.
- "REPEATING" indicates that the repeater is transmitting.
- Note: The repeater does NOT decode while repeating.
- "NOT ACTIVE" means that the repeater has not received a TapWatch transmission in a specified period. It is "waiting" for incoming traffic.

The repeater will not send its supervision transmission while in Not Active condition. This adds receiver side supervision, because the system receiver will declare the repeater "inactive" if no signal is received when the Supervision Window elapses.



AC POWER
BACKUP POWER

BY INOVONICS



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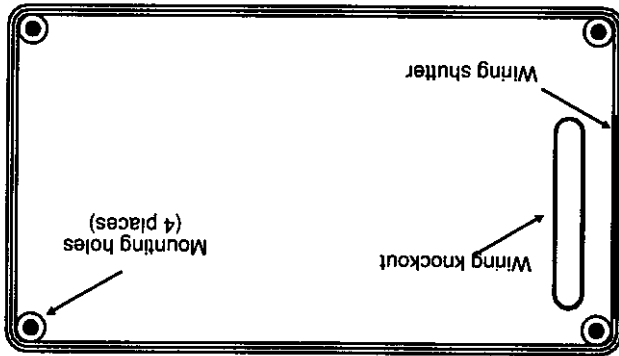
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Installation

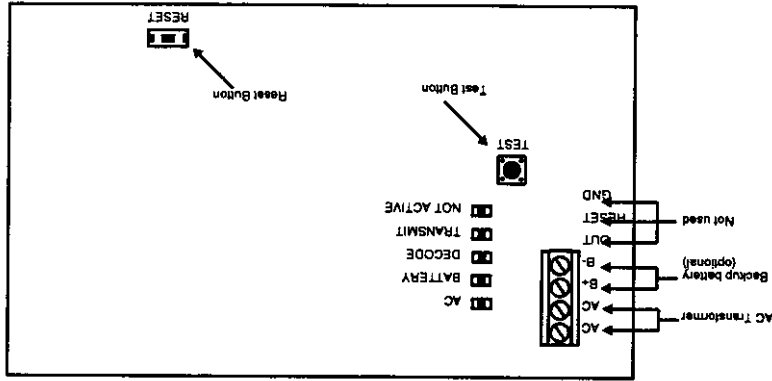
Mounting repeaters:

- Repeaters should be mounted in locations indicated by the system designer.
- Do NOT mount repeaters on metal surfaces or inside metal enclosures. Do not mount where sheet metal ductwork, wire mesh screens, etc., might unnecessarily block transmissions.
- The FA5570 housing has an inside knockout to permit wires from power sources to be brought into the housing from behind the unit.
- The FA5570 also has a removable shutter to permit wires to enter the housing from the side of the unit.



Power Supply:

- The FA5570 transformer requires an *unswitched* 120VAC power outlet.
- The transformer case should be secured to the electrical outlet to prevent accidental unplugging.
- AC power requirement of repeater: 12 to 20 VAC.
- Backup power requirement (optional): 12 VDC.
- Recommended wire requirements: 2-conductor 20AWG (or larger) stranded tinned copper with PVC insulation rated to 300 volts @ 80°. (Belden #8205, for example.) Maximum recommended wire length between transformer and repeater: 100 meters (328 feet). Measure voltage at repeater on long wire runs. (Source: Tech Note #1053.)
- Wire runs should be hidden, stapled or protected by conduit.
- Recommended power supply is 200mA, or 20VA at 14VAC.



SUBMETERING PRODUCTS WARRANTY

Inovonics Corporation ("Inovonics"), warrants its Products ("Product" or "Products") to conform to its own specifications and to be free of defects in materials and workmanship under normal use for a period of fourteen (14) months from the date of manufacture. Within the warranty period Inovonics Corporation will repair or replace, at its option, all or any part of the warranted product. Inovonics will not be responsible for dismantling and/or reinstallation charges. To exercise the warranty, the User must be given a Return Material Authorization ("RMA") Number by Inovonics. Details of shipment will be arranged at that time.

This warranty does not apply in cases of improper installation, misuse, damage due to lightning or water, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than Inovonics. This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express, or implied, including any warranty of merchantability or fitness for a particular purpose. Inovonics will not be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties.

This warranty will not be modified, varied or extended. Inovonics does not authorize any person to act on its behalf to modify, vary or extend this warranty. This warranty will apply to Inovonics Products only. All other products, accessories or attachments used in conjunction with Inovonics equipment, including batteries, will be covered solely by their own warranty, if any. Inovonics will not be liable for any direct, incidental or consequential damage of loss whatsoever, caused by the malfunction of Product due to products, accessories, or attachments of other manufacturers, including batteries, used in conjunction with Inovonics Products.

This warranty does not warrant the replacement of batteries that are used to power Inovonics Products.

Inovonics does not claim that the Product may not be compromised and/or circumvented.



Warning: The User should follow all installation, operation and maintenance instructions. Changes in environmental conditions, electric or electronic disruptions and tampering, may cause the Product to not perform as expected.