

8901-02

fiber optic cable tracing system

The 8901-02 Fiber Optic Tracing System is the pioneer in direct field-to-transmitter remote operation. Permanently installed at the central office or regeneration station, the 8901-02 transmitter sends a tracing signal up to 60 miles down the sheath of a fiber optic cable. The unit can be programmed to be compatible with almost any locator.

The 8901-02's low frequency operations maximizes tracing distance and minimizes signal radiation. Because the low frequency electromagnetic field is virtually confined to the metallic conductor, ghosting and subsequent digging errors are greatly reduced. A low frequency signal also has less attenuation, which allows a longer tracing distance.



The transmitter is remotely accessed through keypad tones from a telephone or two-way radio. To meet the unique need of each customer, the 8901-02 is custom programmed. Equipped with EPROM chip technology, the transmitter is easily upgraded to meet your changing needs.

The transmitter is permanently installed at the central office or regeneration station. The transmitter is designed to operate off a -48 VDC supply voltage or can may be customized to 120 volt power supply. The unit is equipped to be mounted with either 19 or 23 rack mounting brackets. Microprocessor controlled circuitry allows for remote access with either a four-wire or standard two-wire telephone line.

Transmitter Access: Each transmitter has a switch-settable DIMF access code. When being accessed via a two-wire telephone line, the transmitter allows 45 seconds for entry of its individual access code. If the transmitter does not receive a code or receives invalid codes, it will go off-line at the end of 45 seconds to prevent tampering. If the transmitter receives a valid access code, it is then ready to receive DIMF codes to access its many

functions. If the transmitter is installed on a four-wire telephone system, the unit remains on at all times listening for its access code. The 8901-02 provides a synthesized voice response that verbally confirms each DIMF command.

Four Frequency Selection: Four different frequencies can be programmed into the EPROM chip. Any frequency in the range of 128Hz to 10kHz can be programmed. Any low frequency portable receiver operating within this range can be used with the 8901-02 transmitter.

RYCOM recommends the 8876 model receiver because it is highly sensitive with 126dB gain and an excellent noise filter, which eliminates misleading 50-60Hz power line indications.

Identification Code: A morse code signal can be sent down the cable at pre-programmed intervals. The Identification code is picked up by the receiver, audibly identifying your cable in crowded areas.

Wildcard Command: The EPROM chip is programmed to perform each start-up function individually, or as a series of commands by using a single wildcard command.

Line Protection Devices: When the Line Protection Devices are installed between sheath and hard grounds, the 8901-02 can achieve up to 60 miles of tracing distance.

Remote Line Output Relay Control: Located at the cable entrance to the building, the Relay Control provides a hard ground when the tracing signal is off. When the tracing signal is on, the Relay removes the cable sheath from the ground. It connects to the transmitter, and allows the Line Protector to provide foreign voltage and transient energy limiting. When the tracing signal stops, the Relay returns the cable sheath to a hard ground. If the operator finishes the job without shutting off the transmitter, an Automatic Time Shutoff will turn off the transmitter and return the sheath to hard ground.

To accommodate industry developments and changes, flexibility and upgradeability are the cornerstones of the 8901-02 design. The 8901-02 is programmed to meet your requirements. Should it become necessary to change the settings at a later date, it is simply a matter of reprogramming the chip. ■



Warranty ~ One-year warranty from date of delivery against defects in material and workmanship (EXCEPT BATTERIES) on all instruments. This warranty is void if, after having received the instrument in good condition, it is subjected to abuse, unauthorized alteration or casual repair. We will repair or replace products that prove to be defective during warranty period. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. THE WARRANTY DESCRIBED IN THIS PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WE ARE NOT LIABLE FOR CONSEQUENTIAL DAMAGES. Terms ~ Net 30 days, Missouri sales tax charged where applicable. Shipping & Delivery ~ All orders are FOB Raytown, MO. Specifications subject to change without prior notice.

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