



Communicator III

Data Sheet

MSHA APPROVAL
9B-159-0

APPLICATION

The Minesafe Electronics Communicator III is an MSHA Approved Mine Page Phone, compatible with existing mine page phone systems that use a single pair of wires interconnecting all units.

The Communicator III is used in Mining, Tunneling, Construction and other applications where quality, dependable, uncomplicated communication is needed.



DESCRIPTION

The Communicator III Mine Phone is housed in a molded fiberglass, reinforced polyester enclosure and equipped with stainless steel hardware. A poured polyurethane seamless gasket provides a watertight, dust-tight environmental seal. The overall dimensions are 12" high, 7.5" wide and 5" deep.

Each unit is powered by a 12 volt, NEDA 926 lantern battery. A battery indicator LED provides the ability to determine battery condition at a glance, simplifying a major aspect of mine phone maintenance.

MINESAFE ELECTRONICS - STURGIS, KY 42459

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OPERATION

All mine phones in a system must be connected with a two conductor cable. Size 16 AWG or larger wire is recommended.

Normal (semi-private) conversation between stations requires pressing the switch located on the handset. Voice communication can then be conducted with anyone who is listening on another handset. It is not necessary to press the handset switch to listen.

Paging other mine phones in the system requires simultaneously pressing the handset switch and the page (toggle) switch on the front of the enclosure. When this is done, all phones in the system will be energized and the voice of the person paging will sound loudly from the speaker.

Answering a mine phone is accomplished by pressing the switch on the handset and speaking into the handset mouthpiece.

MAINTENANCE

Battery life depends on system usage, however individual batteries can be expected to last about three months. When the battery indicator LED is no longer glowing, the battery should be replaced.

Electronic failure can quickly be cleared by replacing the plug-in circuit board.

All replacement parts and components for the Communicator III are available at Minesafe Electronics, Sturgis, KY 42459

Replacement of critical parts must not be substituted on any MSHA Approved device.

TECHNICAL

Amplifier Current Drain:

*Measurements taken at 12.0 volts DC into a 250 ohm line (readings vary depending on line load, battery voltage and component tolerances)

Standby: 1-2 mA due to battery indicator

Talking: 25-30 mA

Paging out: 55-60 mA

Paging in: 100-150 mA

Current Limiting: 205 mA into short circuit

Paging characteristics: 9.8 volts into open circuit

7.3 volts, 34 mA into 250 ohm line

Dimensions: 12 inches High, 7.5 inches Wide, 5 inches Deep

Weight: 8.4 lbs

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