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MINECOM
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SMART REVERSE MLA AMPLIFIER SERIES

- DRIVE-BY DIAGNOSTICS
- AGC (AUTOMATIC GAIN CONTROL)
- SMART REVERSE CAPABILITIES
- HIGH NOISE IMMUNITY
- VOICE, DATA CAPABLE
- SURFACE MOUNT COMPONENTS

DESCRIPTION

MLA Line Amplifier series is capable of amplifying Voice - Data signals (not video) and is packaged in an IP66/NEMA4X heavy duty enclosure. The amplifier is powered from the leaky feeder cable; no special tools are required to splice it into the leaky feeder cable. The MLA incorporates 2 separate amplifiers (full Duplex), one providing the Down-Link or forward path, the other the Up-Link or reverse path back to the Head End. AGC (Automatic Gain Control) circuits are used to overcome signal level changes bought about by the number of channels in use at any one time, as well as over coming variances in the distance between amplifiers.

The SMARTReverse system provides for redundant communications within the main leaky feeder distribution system in the event of a system failure or cable break. Should part of the system lose communications to the master head end, the intelligent SMARTReverse amplifiers will automatically reverse their direction to provide a seamless and immediate redundant path to maintain communications throughout the mine in the event of a system failure.

The MLA line amplifier also offers Drive-By Diagnostics®, in the form of 4 high intensity LED's, which indicate the current condition of the amplifier. Simply by walking or driving past the amplifier you can determine, without opening the cover, that voltage is present, both amplifiers are operational and whether the forward or reverse AGC circuits are operational. The amplifier was specifically designed for the transmission of high speed Data, it utilises four filters whereas some manufacturers only offer 2 filters. The MLA amplifier offers a high level of sideband immunity, as well as a high level of immunity from external noise. The MLA is not designed to pass Video signals, nor is it possible to add this feature at a later date.

SPECIFICATIONS

Frequency:	**VHF & UHF**
Gain:	**350m version – 16dB** **500m version – 22dB**
Connection:	**Brass Screw terminal and Saddle**
Impedance:	**50 or 75 ohm versions**
Through Current Capacity:	**1.5 amps Max**
Operating Voltage:	**12, 24, 48 volt versions**
Current Drain:	**125mA @12VDC**
Enclosure:	**IP66/NEMA4X heavy duty enclosure c/w IP66 brass cable glands**
Weight & Dimensions:	**1.2Kgs – 190(w) x 60(d) x 75(h) mm**