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MINECOM

A division of TR Corporation

SMART REVERSE MLAD AMPLIFIER SERIES

- DIGITAL DRIVE-BY DIAGNOSTICS®
- AGC (AUTOMATIC GAIN CONTROL)
- SMART REVERSE CAPABILITIES
- HIGH NOISE IMMUNITY
- VOICE, DATA CAPABLE
- IP66/NEMA4X ENCLOSURE
- LLC - LINE LENGTH COMPENSATION®

DESCRIPTION

MLAD Digital Diagnostics Line Amplifier is a new model offering advanced Digital-Drive By Diagnostics®. Voice - Data capable (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 MLAD 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. Two AGC (Automatic Gain Control) circuits are used to overcome signal level changes brought 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 MLAD line amplifier also offers Digital Drive-By Diagnostics®, in the form of 11 high intensity LED's, which indicate the current condition of the amplifier. Simply by walking or driving past the amplifier you can determine its condition from the - 3 LED Volt Meter is present, 3 LED Amp meter and the 5 LED RF level meter. The MLAD also offers LLC - Line Level Compensation®, it has a built in stepped attenuator which can be used to compensate should the cable distance between two amplifiers be shorter than the recommended distance. The amplifier was specifically designed for the transmission of high speed Data, it utilises four filters whereas some manufacturers only offer 2 filters. The MLAD amplifier offers a high level of sideband immunity, as well as a high level of immunity from external noise.



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:	165mA @12VDC
Enclosure:	IP66/NEMA4X heavy duty enclosure c/w IP66/NEMA4X brass cable glands
Weight & Dimensions:	1.2Kgs – 190(w) x 60(d) x 75(h) mm