



RIS-AMD POWER SUPPLY DIAGNOSTIC LINE AMPLIFIER

IS Power Supply Remote Diagnostics/Testing

<u>smartcom®</u>

- Intrinsically Safe MSHA Certified
- Widest Bandwidth Amplifier Available
- Highest RF Gain Amplifier Available
- Local and Remote RF Diagnostics
- Supply Voltage Range, 5.5 12.5 Vdc
- Facilitates Ethernet Connectivity

<u>smartcom®</u>

FEATURES

Becker Mining Systems' smartcom[®] 150IS Power Supply Diagnostic Line Amplifiers compensate for Leaky Feeder cable and splitting losses while providing 16 simultaneous noise-free voice radio channels (no third order intermodulation products), IS Power Supply Diagnostics and Ethernet connectivity using standard cable modems. All smartcom[®] 150IS line amplifiers provide up to 500 m spacing.

Local/Remote RF Diagnostics, Power Supply Diagnostics, Ethernet, video and accurate Automatic Gain Control (AGC) without Return Pilot noise buildup are built-in to every amplifier.

Power Supply Diagnostic line amplifiers connect to ComTrol PS-1571M and PS-1572M power supplies to periodically test and report battery capacity.

The layout rules for smartcom® 150IS systems can be found in the latest version of drawing MSHA-IS-01.

2 Year component & workmanship warranty.

MECHANICAL DATA		
Dimensions	323 x 121 x 270 mm	
(L x H x W)	(12.7 x 4.8 x 10.6 in)	
Weight (nominal)	3.20 kg (7.05 lbs)	
	Two 3 Terminal Lug	
LF Connectors	Connectors, PG21	
	cable grips	
ENVIRONMENTAL DATA		
Temperature	-20 to +60° C	
Range	(-4 to +140° F)	
Protection Class	NEMA 4x (IP66)	
APPROVALS		
MSHA	#23-A050001-0	

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.



TECHNICAL DATA

PERFORMA	NCE SP	ECIFICATIONS
Input Impedance		75 Ω
Input Voltage		5.5-12.5 Vdc
Current Consumption		128 mA @ 12 Vdc
DC Blocking		Jumper Selection on Board Input/Output
Amplifier Spacing		250-500m
Power Supply Diagnostics		PS-1571M, PS-1572M
	Dow	nstream
Gain		10-25 dB
Gain Adjust Range		15 dB (1 dB steps)
Gain Control		MGC, AGC
Bandwidth		15 MHz
3 dB Bandpass		145-160 MHz
3 rd Order Intermod free Channel Capacity		16 Voice/Data, 8 Video (2 per main branch)
Ethernet Bandpass		6.0 MHz
DOCSIS 2.0 data rate		30.34 Mbps (64 QAM)
Third Order Intercept (3IP)		+31 dBm
	Up	stream
Gain		13-28 dB
Gain Adjust Range		15 dB (1 dB steps)
Gain Control		MGC, AGC
Bandwidth		15 MHz
3 dB Bandpass		170-185 MHz
Ethernet Bandpass		6.4 MHz (max)
DOCSIS 2.0 data rate		20.48 Mbps (16 QAM)
Third Order Intercept (3IP)		+29 dBm

hecker VARIS SOLUTIONS

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