AMG5400 & AMG5500 SERIES

Single Channel Fibre Optic CCTV Transmission Solutions

The AMG5400 and AMG5500 Series are designed for low cost, point-to-point transmission of multiple low speed data, audio and alarm channels.

[STANDALONE]

[RACKMOUNT]

[MINI]

Single-mode Multi-mode	Data 232/422/485	Contacts In/Out	Audio In/Out	Temp −40°C~+74°C

/ OVERVIEW

The AMG5400 is designed for multimode fibre, whilst the AMG5500 is designed for singlemode fibre.

The products come in a variety of channel options in mini, standalone and rackmount formats to ensure maximum system versatility. Dual optical redundant options are also available.

Please Note: The AMG dual optical redundancy does not utilise mechanical switches or couplers, and both transmission paths are continually monitored. The new data expansion cards offer transmission of up to 4 additional data channels or 18* unidirectional Alarm channels per optical channel.

Data only transmission units are also available.
* 4 uni-directional contact closures utilises 1 data channel.

/ FEATURES

— Mini, standalone and rackmount formats for minimum space usage

— Removable screw or spring terminal data connectors

— Plug in module for the AMG2009 & AMG2015 allowing the ability to mix with other products in the AMG range

— Multiple data options available via auxiliary data channels

— Up to 18 uni-directional Alarms available

— Dual redundant options available

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Specifications.

Data.

Data rate	Maximum 512kb/s
Interface options	RS-485/RS-422/RS-232
Data connector	Removable screw/spring terminal
Up the Coax	Pelco/Panasonic

Alarms.

Input circuit	330Ω pull-up to +3V3
Output current	150mA
Output voltage	125Vac/dc

Optical.

Wavelength	1310 / 1550 nm
Fibre	Singlemode or Multimode
Optical connector type	SC-PC
Path loss	19dB
Path loss HP version	34dB

General.

Operating Temperature	-40°C to +74°C
Operating humidity	0 to 95% non-condensing
Indicators	Front panel LED
EMC	CE approved
MTBF	>250,000hrs

Power requirements.

Voltage	+12V to +15V$_{DC}$
Power	
Single	2.0W
Dual	3.0W
Quad	3.5W

Mechanical.

Weight	
Mini	150g
Standalone	500g
Rackmount	550g
Dimensions	
Mini	55 × 55 × 26mm
Standalone	110 × 172 × 35mm
Rackmount	3U x 7HP x 172mm

Auxiliary Data Channels.
Audio.

Input level	-40dBm - 0dBm
Input overload level	+6dBm
Input impedance	10kΩ / 600Ω
Output impedance	600Ω
Frequency response	10Hz to 20KHz

Alarms.

Input circuit	1kΩ pull-up to +3V3
Output	
Interface*	NPN, open collector
Current sink	250mA
Voltage maximum	+24Vdc

* Note : AC / high voltage / current output version available, please contact AMG for details

Data.

Interface options	RS-232, RS-422/485, TTL, 20mA
Lonworks option	Echelon FTT-10A
Data Rate	Maximum 115kb/s

Recommended PSUs.

Standalone	AMG2001	15Vdc @ 1A standalone PSU. For Indoor use only.
Rackmount	AMG2015	19" Subrack, 12 Slot c/w PSU
	AMG2015-DR	19" Subrack, 12 Slot c/w dual PSU

Notes.

* 4 uni-directional contact closures utilises 1 data channel.

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Part Numbers.

TRANSMITTER Tx.

Mini.

AMG54/5513	Tx, Bi-directional Data + Bi-directional Alarm
AMG54/5515	Tx, Bi-directional Data + 2 Uni-directional Alarms

Standalone.

AMG54/5523	Dual Tx, Bi-directional data + Bi-directional Alarm
AMG54/5525	Dual Tx, Bi-directional data + 2 Uni-directional Alarms

Rackmount.

AMG54/5513R	VTx + Bi-directional Data + Bi-directional Alarm
AMG54/5515R	VTx + Bi-directional Data + 2 Uni-directional Alarms
AMG54/5523R	Dual VTx + Bi-directional data + Bi-directional Alarm
AMG54/5525R	Dual VTx + Bi-directional data + 2 Uni-directional Alarms

RECEIVER Rx.

Mini.

AMG54/5514	VRx + Bi-directional Data + Bi-directional alarm
AMG54/5516	VRx + Bi-directional Data + 2 Uni-directional alarms

Standalone.

AMG54/5524	Dual VRx + Bi-directional data + Bi-directional alarm
AMG54/5526	Dual VRx + Bi-directional data+ 2 Uni-directional alarms

Rackmount.

AMG54/5514R	VRx + Bi-directional Data + Bi-directional alarm
AMG54/5516R	VRx + Bi-directional Data + 2 Uni-directional alarms
AMG54/5524R	Dual VRx + Bi-directional data + Bi-directional alarm
AMG54/5526R	Dual VRx + Bi-directional data + 2 Uni-directional alarms

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