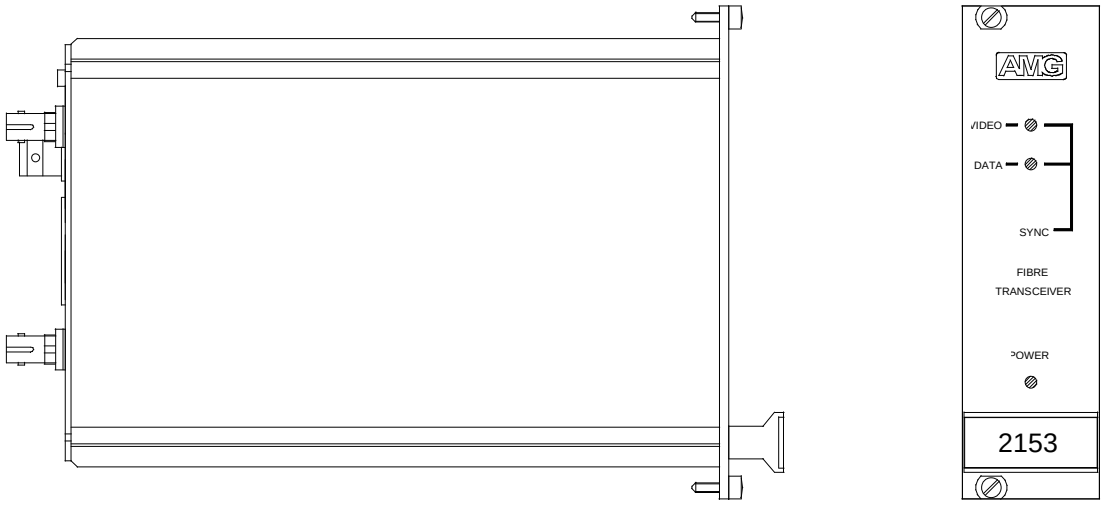
AMG2153
Instruction Sheet

AMG2153 Rackmount Video Receive + Bi-directional 20mA Current Loop Data



Video Connection

Connectors ..... 75 ohm BNC Socket.
Output Impedance ..... 75 ohm terminated.
Output Level ..... 1 volt p-p nominal.
Frequency Response ..... 10Hz to 6MHz min.

Optical Connection

Connectors ..... ST Style (2 off)
Opto In Receiver Sensitivity
High Gain ..... -17dBm to –30dBm nominal.
Low Gain ..... -9dBm to –22dBm nominal.
(Unless otherwise specified units will be shipped in the low gain range)
(for adjustment see below)
Wavelength ..... 850nm nominal.

Data Connection

Connector ..... Push-in connector strip - 11way

(Solid conductors 0.5mm^2 (20 awg) can be connected by simply push fitting into the appropriate connection hole. Smaller conductors and wires (up to 0.5mm^2, 20 awg) are inserted into the connection space whilst depressing the orange lever. Wire or conductors should be stripped back to a length of 11mm. Use a small screwdriver to depress the orange lever to release the connection.)

Pinout ..... See Below – Note Pins number from the bottom of the unit

Pin No.	Function
1**(bottom)**	N/C
2	N/C
3	N/C
4	N/C
5	Power Ground
6	Auxiliary Power Input (+15v to +18v dc)
Data Interface	**20mA**
7	Data Ground
8	Data Out
9	Data In
10	N/C
11	N/C

Dimensions

Height 3U
Width 7HP
Depth 205mm

Mounting Details

The AMG2153 plugs into and is powered from the AMG2000 Subrack

Indicators

Power ..... Green – lit when unit powered
Video Sync ..... Green – lit when video signal present on optical input.
Data Sync ..... Green – lit when data channel present.
(Note: this does not indicate the presence of actual data)

Gain Range Setting

If required the receiver gain range can be adjusted by changing jumper positions on the PCB. The high gain setting is for long distances over small fibres, and the low gain setting for larger diameter fibres over short distances. Units are shipped in the low gain setting unless otherwise instructed. The circuit board assembly is removed by removing screws A and B on the rear panel of the plug-in and sliding the assembly out of the case. Screw C should not be removed under any circumstances. See above for typical power levels for each range.