ADG231 Process 4-20mA Signal Splitter / Isolator

- Suitable for use in SIL1, SIL2 and SIL3 rated Safety Instrumented System (SIS) Loop applications (EN 61508-2)
- Non-Smart / Non-uProcessor based, Type A instrument
- Ultra slim Compact Design, up to 30 units along 12” length of Din Rail
- 6 Year Warranty
- Universal DIN Rail Mounting, suitable for TS35 Top-Hat & TS32 G-Rails

Technical Specification

Input Options **(Impedance)**

0/4-20mA (Passive port)	50Ω
0/1-5Vdc	500K

Dual Output Options **(Drive)**

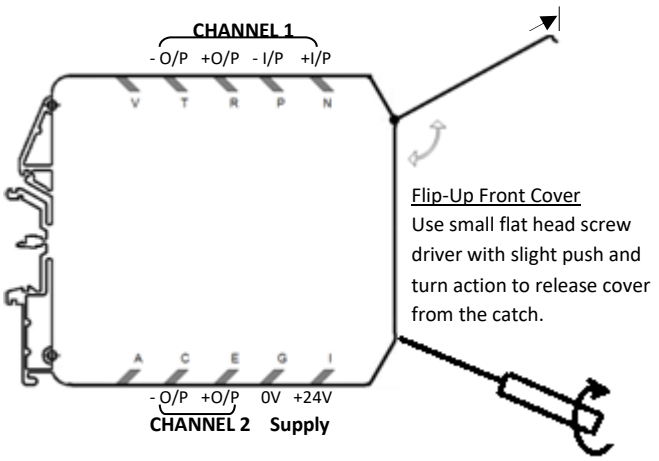
0/4-20mA (Active port)	Max load 300Ω
0/1-5Vdc	Min load 200KΩ

Supply

24Vdc ±10% std. (12V / 18-27Vdc supply options ‘X’ available)
(Red LED Power ON indicator)

General Specification

Isolation:	1000V RMS Input/Output1/Output2/Supply
Linearity:	<± 0.05% of full scale
Accuracy:	<±0.1% of full scale
Response Time:	<200mS (0-100% step)
(High Speed ≤25mS 0-100% step response option ‘HS’ available)	
Vibration:	1g at 15Hz to 150Hz
Low Power Consumption:	1.5Watts
IP Rating:	IP20
Weight:	75g



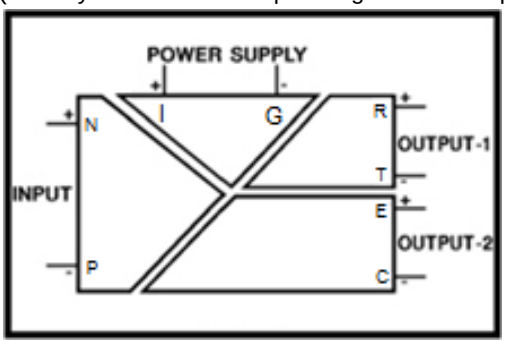
Environmental Conditions

Operating Ambient: -15 to +55˚C
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU , EN 61326-1:2013 (Controlled EM)

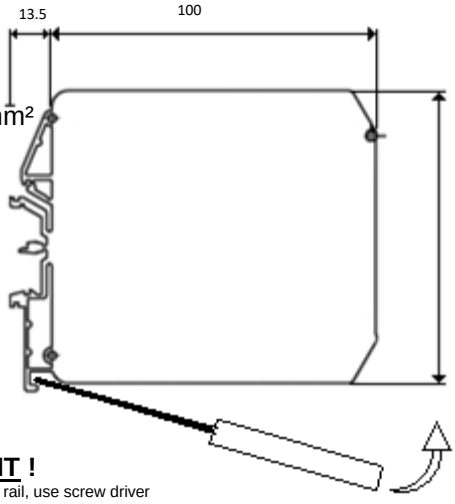
Customer Connections

Fixed screw terminals, accept solid/stranded cables ≤2.5mm²
With 0.35Nm max screw Torque. Screened twisted pairs
Cable recommended as std for 4-20mA loop signals.

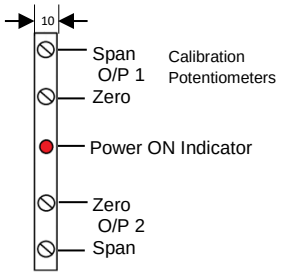
(Dummy units available if planning for future expansion)



Overall Dimensions: 10w x 90h x 113.5d mm:



Front View of Controls Beneath front cover



! IMPORTANT !
To dismount from Din rail, use screw driver as shown to release the catch.

(Please refer to additional din rail mounting instruction sheet for further guidance, available on request if needed)

Push upwards to release from the Din rail

Tel: 01908-567003 **Email: sales@amelec-uk.com** **Visit: www.amelec-uk.com** **Fax: 01908-566735**
AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ

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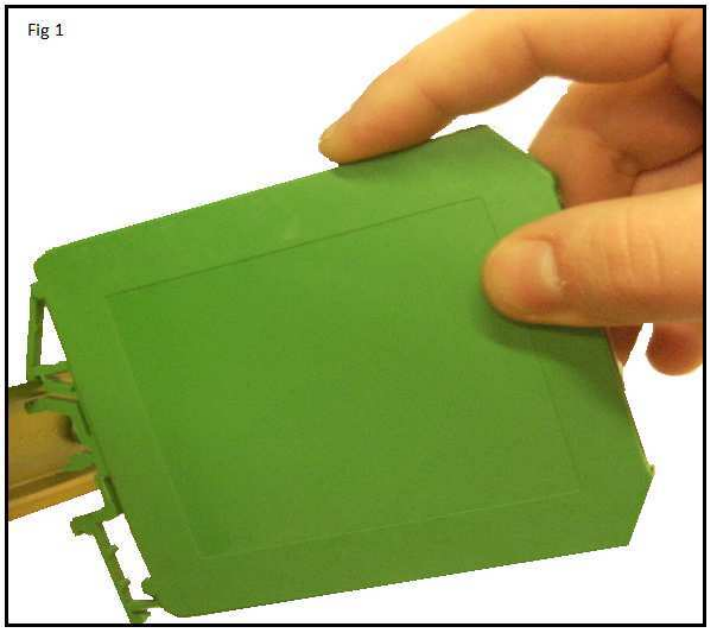
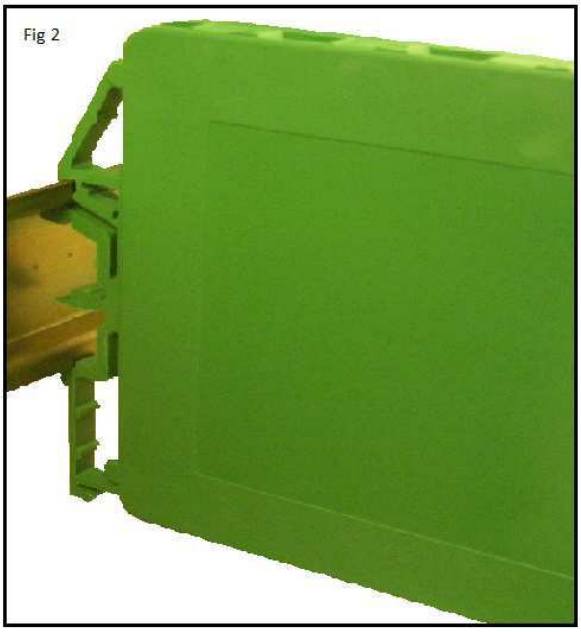
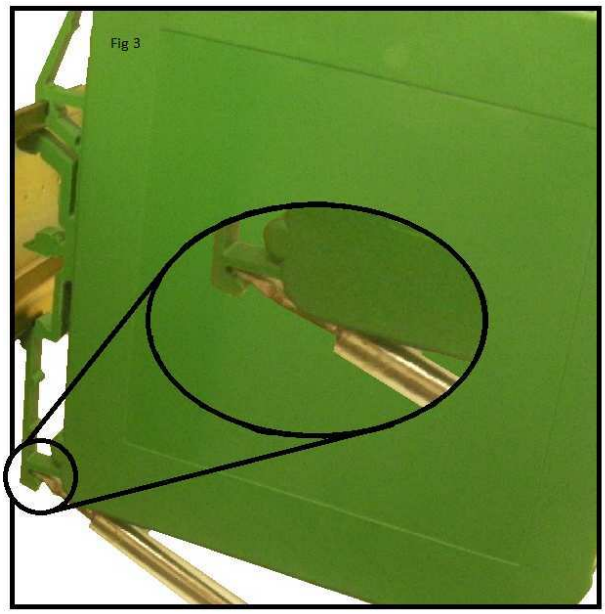
ADG231 DIN RAIL (TS35) MOUNTING INSTRUCTIONS

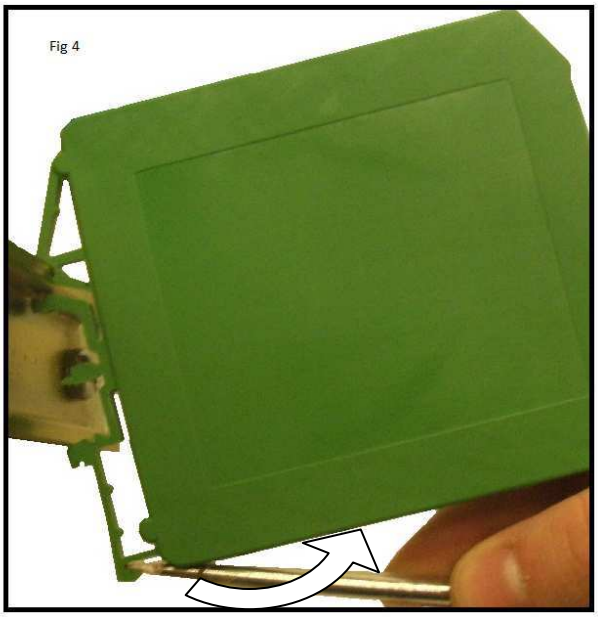
To fit the ADG231 on to a Din Rail you need to locate the top part of the clip on to the top of the din rail as shown in Fig 1 below. Once this part is located you need to apply slight downwards pressure to the top of the unit until the bottom part of the clip fits into place (Fig 2), you should be able to feel when the unit is firmly in place.





To remove the unit from the Din Rail, first locate a suitably sized flat head terminal screwdriver in to the slot at the bottom of the din clip as shown in Fig 3 below. Once the screwdriver is located apply slight upward pressure to the screwdriver against the underside of the enclosure to pull the clip downwards, thus releasing the bottom of the clip holding on to the din rail (Fig 4) and allowing the unit to be simply lifted away from the din rail.

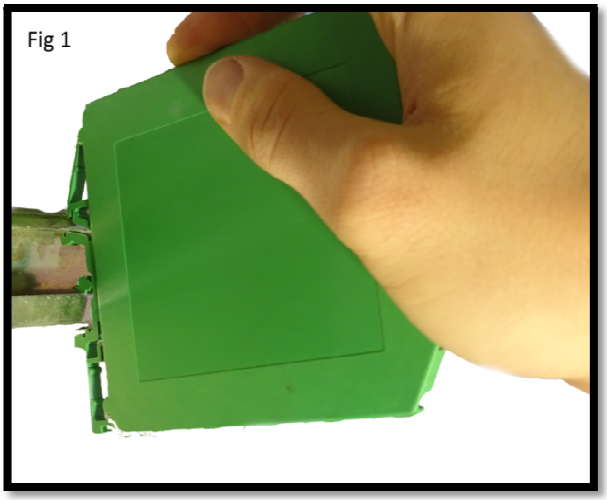


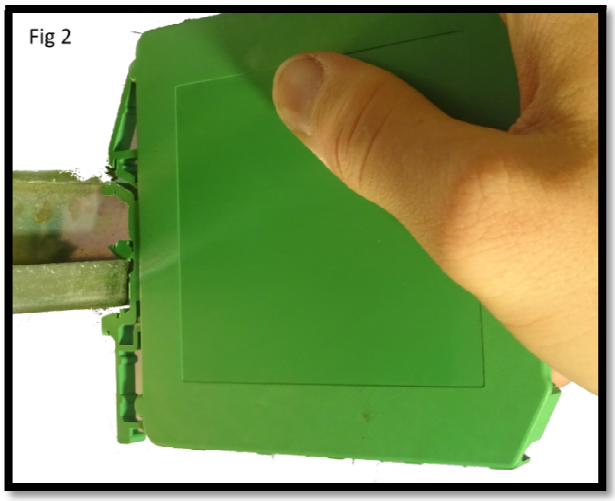


Push upwards to release from Din rail

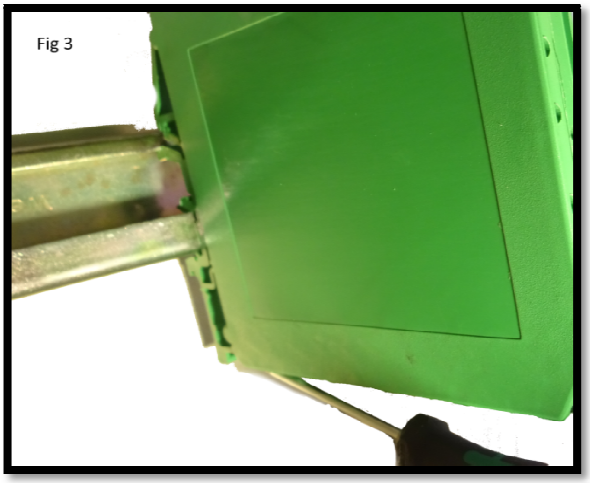
ADG231 G-RAIL (TS32) MOUNTING INSTRUCTIONS

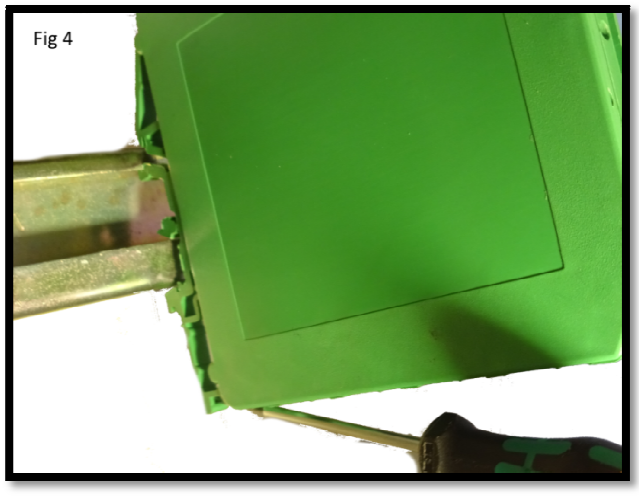
To fit the ADG231 on to a G-Rail, you need to locate the top clip facing up onto the top of the G Rail, shown in Fig 1 below. Once the top clip is attached, you can lightly press on the unit to allow the middle clip to secure onto the G-Rail, shown in Fig 2 Below.





To remove the unit from the G-Rail, first locate a suitably sized flat head terminal screwdriver in to the slot at the bottom of the din clip as shown in Fig 3 Below. Once the screwdriver is located, apply slight upward pressure the screwdriver against the underside of the enclosure to pull the clip downwards, thus releasing the bottom of the clip holding on to the G-Rail (Fig 4) and allowing the unit to be simply lifted away from the rail.





Push upwards to release from G-Rail

Issue: 08.17