



## ISO AMP - External module - Four channel analog isolation amplifier

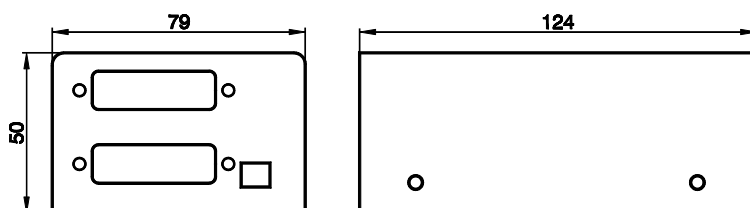
### Features

- Selectable 0-5 V and 0-10 V signal levels
- Isolated programming and monitoring of U, I and status signals
- Prevents problems with earth loops and CM-voltages
- Isolated logic inputs and outputs
- Pin compatible with D15 connector on Delta elektronika power supplies

### Specifications

- Programming and monitoring offset : +/- 60mV typical
- Full scale error : 0.1% calibrated
- Non-linearity : 0.01% typical, TC = 65ppm/°C
- Common mode rejection : 80 db @ 50 Hz

### Dimensions



Dimensions of the external ISO AMP MODULE.

### Analog inputs / outputs: CV, CC programming and CV, CC monitoring

· Offset		: $\pm 60$ mV typical, $\pm 180$ mV max.
· Full scale error		: 0.1% calibrated.
· Non-linearity		: 0.01% typical, 0.05 % max.
· Temperature coefficient		: -65ppm typical
· Common mode rejection		: 80 dB @ 50 Hz
· Voltage rage :	Connector 'to power supply'	: 0 - 5 V
	Connector 'to prog. source '	: 0 - 5 V or 0 - 10 V selectable
· Input impedance	Connector 'to power supply'	: 200 kW
	Connector 'to prog. source '	: 200 kWfor 5 V input, 400 kWfor 10 V input.
· Output impedance	Connector 'to power supply'	: 100 W/ max. 4 mA
	Connector 'to prog. source '	: 1 W/ max. 4 mA
· Reference voltage		: $5.114 \text{ V} \pm 15 \text{ mV}$ ( $R_o = 10 \text{ W/ max. 4 mA}$ ), $TC = 20 \text{ ppm/}^\circ\text{C}$
· Auxiliary supply voltage		: 11.4 - 12.7 V / $R_i = 470 \text{ W}$

### Digital status outputs : CV, LIM, OT, ACF, DCF

· Output voltage	CON 2	: + 5 V / max. 2 mA
· Output impedance	CON 2	: 5 W

### Digital input : Remote shutdown

· Input voltage	CON 2	: 3 - 15 V
· Input impedance	CON 2	: 1.8 kW

### General

· Capacitance input / case		: 3.2nF
· Operating temperature		: - 20 to + 50°C
· Storage temperature		: - 40 to + 85 °C
· Humidity		: max. 95% RH, non condensing, up to 40°C
		: max. 75% RH, non condensing, up to 50°C
· Isolation voltage		: Input-Output 1000 V Basic isolation
		: Input-Case 1000 V Basic isolation

### Connections ISO AMP Module

· Supply voltage		: 15 - 30 V DC, max. 75mA
· 2 pole theminal block		: To connect the external supply voltage
· 15 P female D-connector		: To connect the module to a programming source.
· 15 P male D-connector		: To connect the module to the power supply

The four analog channels are factory-calibrated within 0.1 % for 5 V input and output voltages. Selecting a 10 V input and/or output without re-calibrating can introduce an extra full scale error of 0.1 %. Offset, full scale error, non-linearity and temperature coefficient have to be added to the specifications of the power supply.

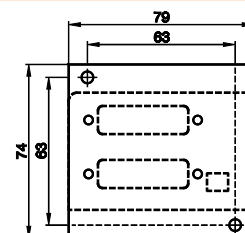
### Ordering information

- Order ISO AMP MODULE for the external module.
- The external module can be used in combination with all programmable Delta Elektronika power supplies.

### Accessories

The following is supplied with the ISO AMP MODULE:

- Rail adapter for 35 mm rail mounting
- Wall mounting adapter
- 0.6 m cable with 15 pole D-connectors.



Dimensions wall mounting adapter