

# Iso-Power Isolation Amplifiers

*To separate and protect*



**General**

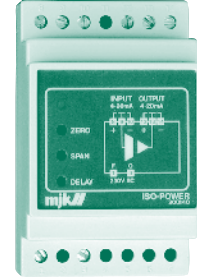
Iso-Power isolation amplifiers are used for galvanic separation of measuring circuits and power supply for 2-wire and 3-wire transmitters.

**Features**

Iso-Power is supplied in two versions; *Panel* for DIN rail mounting and *Field* for local mounting. Additionally, the Field version can be equipped with a display for local indication. On both versions it is possible to adjust both zero / span and also the damping of the output signal.

Iso-Power isolation amplifiers are used for galvanic separation of electrical measuring systems, and supplies the measuring circuit loop power at the same time, thus saving a separate power supply. Iso-Power isolation amplifiers can be used to:

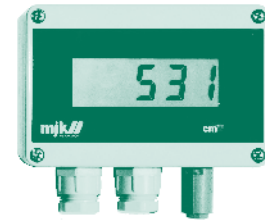
- Avoid short circuit between measuring circuits.
- Eliminate coupling of potentials from liquids, amplifiers and PLC's, which can cause disturbances on analytic measurements for pH, redox and conductivity.
- Ease fault finding because a galvanic isolation will isolate the wiring problems.
- Reduce or eliminate damages caused by overvoltage limiting instrument damage.
- Reduce interference caused by electric noise. Iso-Power has adjustable damping of the output signal.



Iso-Power Panel for DIN-rail mounting



Iso-Power Field for local mounting



Iso-Power Field for local mounting equipped with type 531 display insert (option)

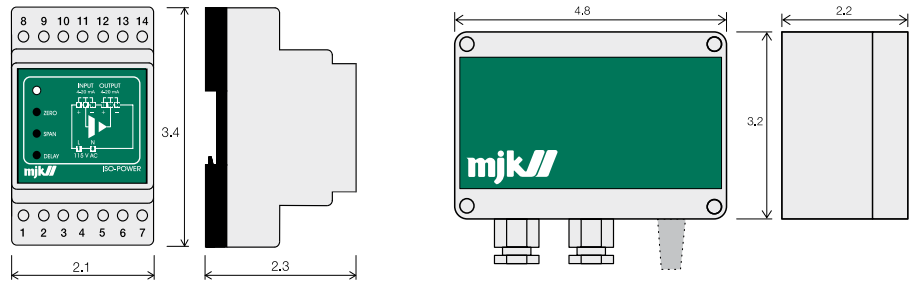
6.4

**Specifications**

Part number:	200135	200136	209140
Mounting:	Local	Local	DIN rail
Supply:	15 - 35 V DC	15 - 35 V DC	115 V AC, 50-60 Hz
Load:	120 mA	120 mA	-
Output signal:	3-wire 4-20 mA, 2- or 3-wire, max. 500 Ω		
Input signal:	4-20 mA, 2-wire or 3-wire		
External supply:	15 V DC, 80 mA max.		
Air filter:	No	Yes	-
Temperature range:	-5 ... +140 °F		
Material:	Makrolon	Makrolon	Lexan/Noryl
Enclosure:	NEMA 4X	NEMA 4X	NEMA 1
CE approvals:	EN50081-1, EN50082-1		
Display insert:	See data sheet 6.3 for specifications		
Accessories:	Type 532 loop-supplied display for panel mounting, Type 531 display insert for Iso-Power Field, Type 533 115 V AC display w. 24 V DC transmitter supply (panel mounting),		part no. 200121 part no. 200126 part no. 200131

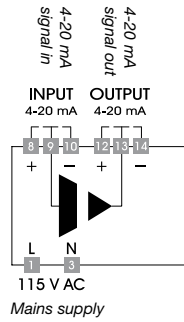
① The programming connector is used for programming of MJK pressure transmitter with MJK programming unit, part no. 202926.

Dimensions

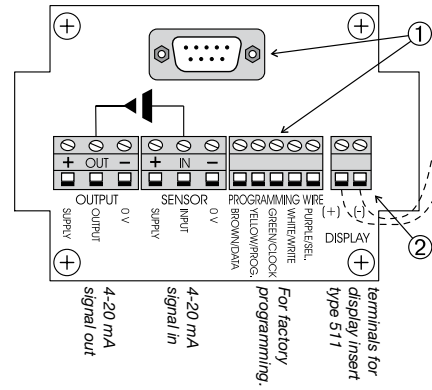


Connections

Iso-Power Panel



Iso-Power Field



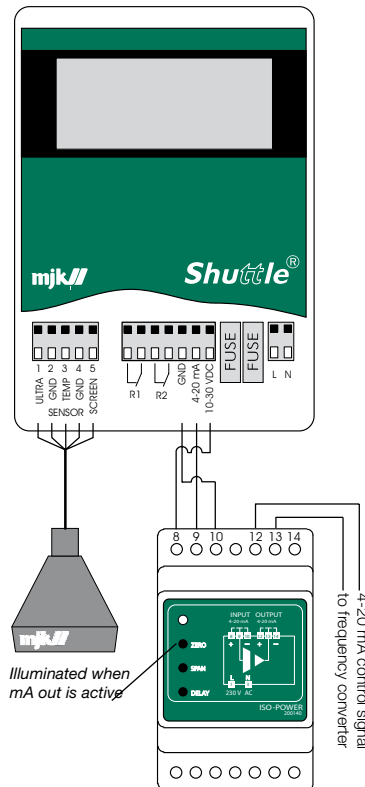
Type 531 display insert (option)



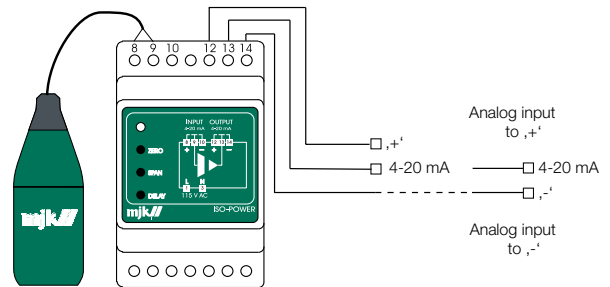
- ① Programming plug and terminals only on part no. 200136.
- ② Red wire to '+', Black wire to '-'. REMEMBER TO CUT THE JUMPER!

Application examples

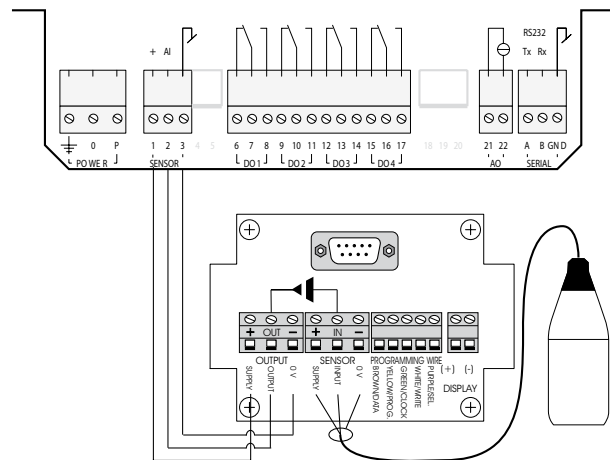
Supply and connection of Shuttle® level sensor via Iso-Power Panel to frequency converter



Connection of pressure transmitter to PLC via Iso-Power Field



Connection of pressure transmitter via ISO-POWER Field to 704 P pump controller



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