D a t a   s h e e t

OA - adp

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IBR

Messtechnik GmbH & Co. KG

The adapter *OA-adp* is a plug-in module which provides tolerance-controlled outputs on B200 and C200 gauges. Five corresponding actuator outputs are made available at the module's terminal strip.

The adapter *OA-adp* comes with five Power-FET outputs. All outputs feature galvanic separation via opto-electronic couplers. The outputs are designed as High-Side-Switches and are suitable for medium switching capacity. Furthermore the outputs are short-circuit-proof and reverse-polarity-protected. They also feature internal overload protection and are suitable for switching inductive loads without external recovery diodes. The trigger input of the B200 / C200 port used is galvanically separated by the adapter *OA-adp* via an opto-electronic coupler and is made available at the module's terminal strip. External switching contacts can be connected to the trigger input, providing the full range of foot and hand switch functionality featured by the B200 / C200 gauges. The adapter *OA-adp* is connected to the Ft1 or Ft2 Sub-D port at the rear of the B200 / C200 gauges.

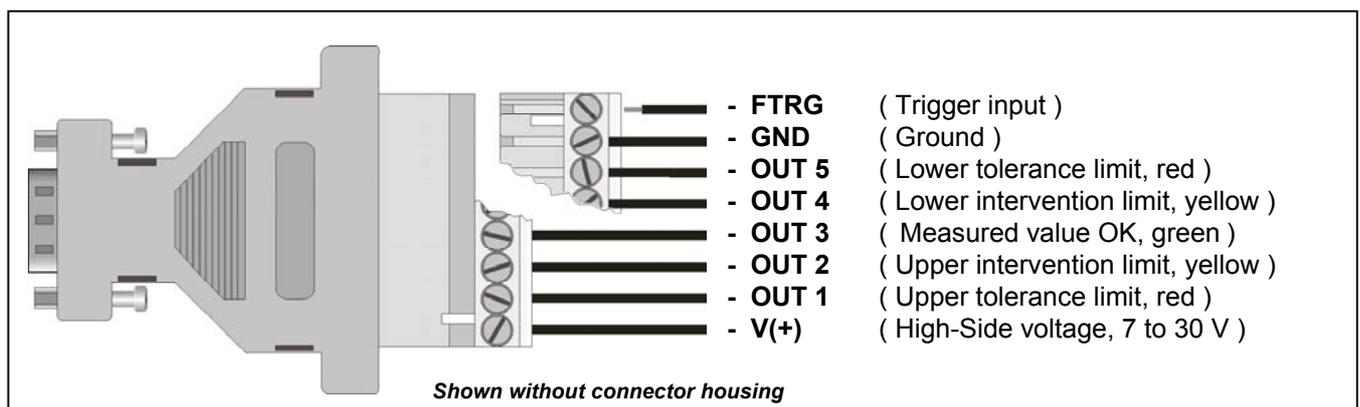
Art.-No. F603 010

Illustration with connector plugged on

T e c h n i c a l   d a t a

Electrical characteristics

Isolation voltage	2000 V
Allowed voltage range (V(+), FTRG)	7 to 30 V DC
Maximum allowed output current (OUT 1-5)	700 mA (continuous current for each output)
On-state resistance R_{ON} (V(+) to OUT 1-5)	< 290 mΩ (at 0,5 A load current)
Output current limitation (OUT 1-5)	1,5 A
Maximum allowed inductive load (OUT 1-5)	66 mH for each output
Input resistance of the trigger input (FTRG)	> 3 kΩ

Typical values at an ambient temperature of 25°C

Pin assignments

- **FTRG**   (Trigger input)
- **GND**   (Ground)
- **OUT 5**   (Lower tolerance limit, red)
- **OUT 4**   (Lower intervention limit, yellow)
- **OUT 3**   (Measured value OK, green)
- **OUT 2**   (Upper intervention limit, yellow)
- **OUT 1**   (Upper tolerance limit, red)
- **V(+)**   (High-Side voltage, 7 to 30 V)

Shown without connector housing

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A d d i t i o n a l   i n f o r m a t i o n

Connection to B200 / C200 gauges :

Connect the adapter *OA-adp* to the Ft1- or Ft2-connector of the gauge and secure the adapter by tightening the two UNC-screws.
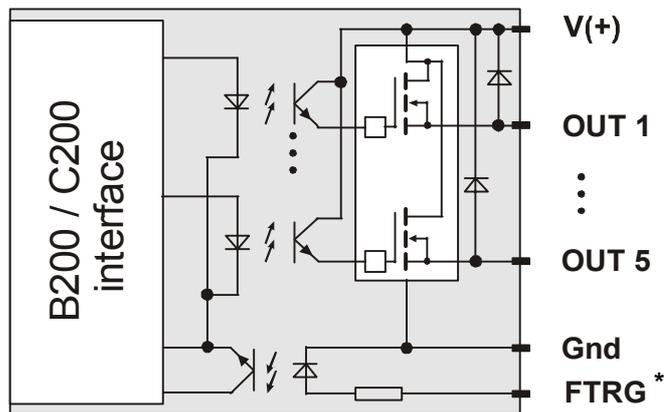
Programme those tolerance marks of the gauge that are to activate an actuator output.

(Select and confirm the menu point **Tolerances** by using the **rotary encoder**. Then activate the tolerance marks that shall be used and enter the relative deviation to the nominal size.)

If desired, programme the trigger input function of the gauge.

(Select and confirm the menu point **basic setup** by using the **rotary encoder**, call menu **L3 - Foot. 1** [if connected to Ft1] or **L4 - Foot. 2** [if connected to Ft2] and select the desired function.)
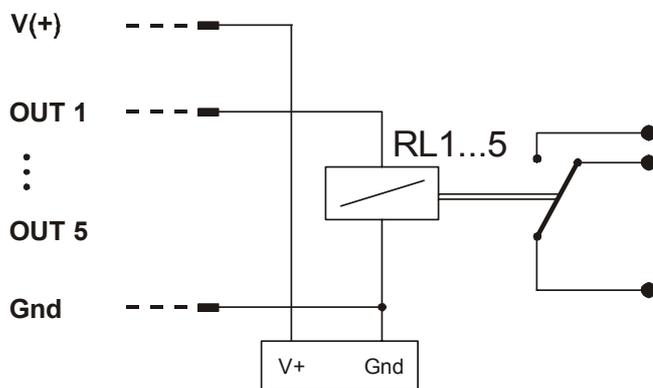
Block diagram :

* *Minimum switch impulse duration 100 ms on FTRG*

Typical applications **:**

Connecting relays   *PLC connection*