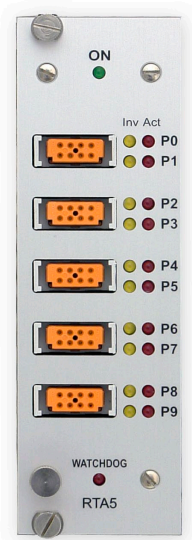


ALMEMO® Output modules

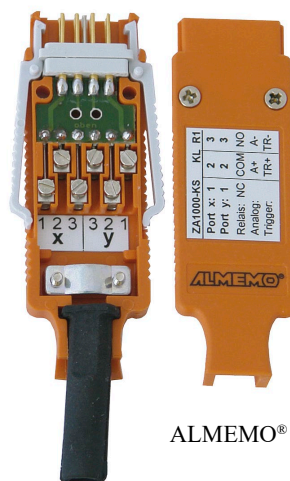
ALMEMO® trigger output interface, ES 5690 RTA5, for ALMEMO® data acquisition systems



- Universal trigger output interface for ALMEMO® 5690 data acquisition systems
- System (master measuring circuit or CPU module) addressed via an internal SPI bus
- Up to 10 peripheral elements (relays, trigger inputs, analog outputs) each with individually configurable function
- Relay functions, total alarm, assignment to particular limit values, or addressing via interface
- Inverse relay addressing for alarm in the event of power failure
- Relay states shown via LEDs
- Watchdog function in the event of a failure of ALMEMO® device or computer addressing
- Comprehensive trigger features with the aid of command macros, addressing via electrical signals
- Either 2 or 4 analog outputs (10 V or 20 mA programmable) can be assigned to any measuring channels, scalable sub-areas, or alternatively addressing via interface.
- On request : 10 analog outputs per plug-in module (without trigger inputs, without relays)
- Connection of peripherals via ALMEMO® clamp connectors, cable with anti-kink protective sleeve and strain relief
- Power supply via ALMEMO® system.

Technical Data:

Trigger inputs	Optocoupler 4 to 30 V, $R_i > 3 \text{ kohms}$
Relays	Semiconductor relays 50 V, 0.5 A, 1 ohm
Analog outputs	10 V or 20 mA (programmed) 16 bit DAC, electrically isolated
0.0...10.0 V	0.5 mV/Digit. Load $> 100 \text{ kohms}$
0.0...20.0 mA	0.1 mA/Digit. Load $< 500 \text{ ohms}$
Accuracy	0.1% of meas. val. +0.1% of final val.
Temperature drift	10 ppm/K
Time constant	100 μs
Power supply	via ALMEMO® measuring system
Current consumption	Standard: approx. 10 to 20 mA 2 analog outputs: approx. 15 mA + 1.8·IOut
Module	19" 8-DU (2 slots)



ALMEMO® clamp connector

Basic version 2 trigger inputs and 4 normally open relays

Options 2 additional relays (normally open) OA8006SH2

Per normally open pair 2 additional normally closed relays
(with normally open relays 2 changeover relays) OA8006OH2

2 analog outputs (common ground), electrically isolated
10 V or 20 mA (programmable) OA8006R02

Possible combinations

2x OA8006SH2 (+4 relays)
or 1x OA8006SH2 (+2 relays) + 1x OA8006R02 (+2 analog outputs)
or 2 x OA8006R02 (+4 analog outputs)

Variants

ALMEMO® relay trigger module - with 2 trigger inputs,
4 normally open relays, and 3 ALMEMO® clamp connectors

Order no.

ES5690RTA5