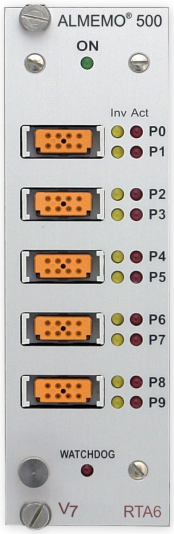
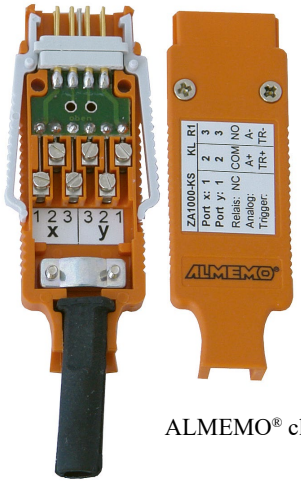
ALMEMO® trigger output interface, ES 500-RTA6, for data acquisition system ALMEMO® 510 V7



Technical Data:

Trigger inputs	Optocoupler 4 to 30 V, Ri > 3 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 kohms
0.0...20.0 mA	1 µA/Digit, Load < 500 ohms
Accuracy	± 0.1% of meas. val. ± 0.1 % of final val.
Temperature drift	10 ppm/K
Output rate	in total up to 100 actions/s for a system with 1 RTA6 plug-in module
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)

- Universal trigger output interface for ALMEMO® 510 V7 data acquisition systems
- Control from the CPU slot via internal SPI bus.
- Up to 4 RTA6 plug-in units are supported per ALMEMO® 510.
- 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.



ALMEMO® clamp connector

Basic version 2 trigger inputs and 4 normally open relays

Options 2 additional relays (normally open) **OA500SH2**

Per normally open pair 2 additional normally closed relays (with normally open relays 2 changeover relays) **OA500OH2**

2 analog outputs (common ground), electrically isolated 10 V or 20 mA (programmable) **OA500R02**

Possible combinations

2x OA500SH2 (+4 relays)
or 1x OA500SH2 (+2 relays) + 1x OA500R02 (+2 analog outputs)
or 2x OA500R02 (+4 analog outputs)

Variants

	Order no.
ALMEMO® relay trigger module for data acquisition system ALMEMO® 510 V7 with 2 trigger inputs, 4 normally open relays, and 3 ALMEMO® clamp connectors	**ES500RTA6**