ALMEMO® MEASURING INSTRUMENTS

ALMEMO® 8490-TH and 8490-KS

data acquisition modules in 4-DU housing with 10 measuring inputs, 2 outputs for RS232, Ethernet, analog, memory with external connector, and micro SD card or internal 512-KB EEPROM (option S)







inputs

outputs

Technical Features:

Type TH: 10 electrically isolated inputs for 10 sensors with thermocouples

Type KS: 10 electrically isolated inputs with clamp connectors Type KSU: ditto, for 10-V signals Type KSI: ditto, for 20-mA signals

- 2 ALMEMO® output sockets for digital interfaces, analog output, trigger input, alarm contacts, memory card
- High-speed, high-resolution A/D converter, 24-bit, 50 mops New Electrically isolated between measuring inputs and supply
- Programming of sensor parameters in the device, can be modified via interface using the supplied AMR-Control
- Measuring functions: Measured value, zero-setting, sensor adjustment, maximum / minimum values stored with date and time-of-day, smoothing, average values over time or measuring points, limit value monitoring, temperature compensation, atmospheric pressure compensation
- Cold junction measuring with 2 NTCs and interpolation (Type TH)
- New measuring ranges: Timer 6500.0 seconds, PT100 0.000 to 65.000 °C (Type KS)
- 4 LEDs for indicating various operating states
- Data logger with memory connector and micro SD card, recording in standard FAT16 file format, transmission to PC using card reader
- Option: EEPROM with capacity for 100,000 measured values, internally configurable as linear or ring memory
- Sleep mode for long-term recording
- Device programming using the supplied AMR-Control software, i.e. date and time-of-day, cycle, start and end of measuring, measuring rate, etc.
- Key for switching on and start / stop measuring

Technical Data:

84		San market	
weasi	ırıng	inputs	

Type TH 10 inputs

with miniature thermal sockets Type KS 10 inputs with clamp connectors Channels 10 primary channels, maximum 30 additional channels for double sensors and function channels (e.g. differential values)

Selector electrically isolated,

with semiconductor relays (50 V) delta-sigma, 24-bit, 50 mops, A/D converter

electrically isolated

see technical data, page 01.05

Outputs 2 ALMEMO® sockets for all output modules (analog, data, trigger, relay

cables, memory etc.)

Standard equipment

Operation 1 key

Memory Ext. memory connector ZA1904MMC Internal 512-KB EEPROM Option S (100,000 measured values)

Date and time-of-day Real-time clock,

buffered with lithium battery

Power supply

Mains adapter ZB1112NA7 230 VAC to 12 VDC,

1A, electrically isolated DC adapter cable 10 to 30 V, 250 mA

ZB2290-UK electrically isolated

Current consumption without active mode approx. 25 mA Input and output modules Sleep mode approx. 0.05 mA

(LxWxH) 174 x 29 x 137 mm, Housing

polystyrene Weight 435 g

For further general data, see technical specifications, page 01.05.

Product overview:

Data acquisition module 8490-TH

4-DU housing, 10 inputs for all thermocouples with miniature thermal connectors and mV ranges, 2 outputs, real-time clock, and mains adapter 1A **MA8490TH OA8490S**

Option S Internal data memory, 512-KB EEPROM

Data acquisition module 8490-KS

4-DU housing, 10 inputs with clamp connectors (included), without sensor supply, ranges PT100, Ni100, NTC, ohms, 2.6 V, 260 mV, 55 mV, 26 mV, thermocouples with external cold junction, 2 outputs only, real-time clock, mains adapter 200 mA

MA8490KS

ditto, 10 inputs with 100/1 divider for 10-V signals only MA8490KSU ditto, 10 inputs with shunt for 20-mA signals only MA8490KSI Option S Internal data memory, 512-KB EEPROM **OA8490S** Option Q4: 400 mops measuring rate (see 01.05) SA0000Q4

Accessories

DC adapter cable, 10 to 30 VDC, 12 V / 250 mA,			
electrically isolated	ZB2290UK		
Clamp connectors for ES5690UKS, 1 set (= 2 socket strips)			
for connecting 10 sensors	ŽB5600KS		
Memory connector with micro SD card (see p. 04.03	3) ZA1904SD		
Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit	ZA1601RK		
Socket strips (2 pieces) including dust cover for	MA8490KS		
Trigger and alarm cable (2 relays, 1 Ω , 0.5A, 50 V)	ZA1006EKG		
V24 data cable, electr. isolated, maximum 115.2 KB	ZA1909DK5		
Ethernet data cable, electr. isol., max. 115.2 KB	ZA1945DK		
Network cable, electr. isolated, maximum 115.2 KB	ZA1999NK5		
Network technology, Bluetooth modules, see Chapter 05			