**ZA1904SD** 

# ALMEMO<sup>®</sup> Measuring Instruments

# ALMEMO<sup>®</sup> 5690-1CPU

#### **Technical data and functions**

- Technical data and functions, as for ALMEMO® 5690 series
- CPU board with measuring circuit (without measuring inputs) and output sockets
- Up to 100 measuring inputs / 100 measuring channels via selector switch boards
- Option XU up to 190 measuring inputs / 250 measuring channels via selector switch boards
- Option XM high-speed measuring operations, up to 190 measuring inputs / 250 measuring channels via active measuring circuit boards The measuring circuit boards operate in parallel, thus ensuring short scanning times for a large

number of channels. The scanning time is determined by the measuring circuit board with the highest number of active measuring channels - or, at conversion rate 50 Hz, also by the processing time of the CPU.

- Option 5 ALMEMO<sup>®</sup> output sockets for digital interfaces, analog outputs, trigger, alarm contacts, socket P0 for integrated relay outputs
- Data logger with internal RAM (standard) or FeRAM (option) or external ALMEMO® memory connector with micro SD card

#### Technical data

Technical data, as for ALMEMO <sup>®</sup> 5690 series		External memory (accessory)	ALMEMO <sup>®</sup> memory connector
CPU board	Measuring circuit (without measuring		with micro SD card
	inputs), input boards (see page 01.54)	Outputs	5 ALMEMO <sup>®</sup> sockets, suitable for all
Measuring inputs / measu	uring channels		output modules (analog / data / trigger /
Standard	up to 100 inputs / 100 meas. channels via selector switch boards		relay cables, etc.) . Alarm signal transmitter, internal Socket P0
Option XU	up to 190 inputs / 250 meas. channels via selector switch boards		for integrated relay outputs (option) Or trigger and analog output
Option XM	up to 190 inputs / 250 meas. channels		(by request)
1	via active measuring circuit boards	Operation	1 key, 5 LEDs, 2 coding switches
Memory, internal	sufficient for 400,000 values, linear or ring memory		
Standard	RAM (buffered by battery)		
Option SF	FeRAM (non-volatile)		

#### Accessories

Memory connector with micro SD, including USB card reader (see chapter "General accesso	ries")
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Input boards / expansions	Order no.
Option XM - selector switch boards and active measuring circuit boards	(see page 01.54)
Relay / trigger / analog board, 2 slots Per system up to 4 boards are supported. (see chapter "Output modules")	ES5690RTA5

Options	Order no.
Up to 190 measuring inputs / 250 measuring channels	<b>OA5690XU</b>
For active measuring circuit boards, up to 190 measuring inputs / 250 measuring channels	OA5690XM
Data memory, internal FeRAM, non-volatile (instead of battery-buffered RAM)	OA5690SF
Multi-point adjustment, special linearization, management of calibration data	OA5690KL
Temperature ranges for 8 refrigerants (see 10.08)	SB0000R2
Measuring rate for 1 measuring channel, 500 mops (SD card required) This cannot be combined with option XM.	SA0000Q5
For output socket P0	
SH2 2 semiconductor relays (normally open) internal, 0.5 A, 50 V	OA5690SH2
OH2 2 additional relays (normally closed) for option SH2 (thus 2 changeover relays)	OA5690OH2

#### Standard delivery

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Precision measuring instrument, data acquisition system with CPU board Measuring circuit (without measuring inputs) Input boards must be ordered separately. (see page 01.54) Mains plug assembly ZB1212NA11, Operating instructions, manufacturer's test certificate



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#### ALMEMO® 5690-1CPUTG1



Dimensions: 77 x 145 x 218 mm (WxHxD)

Data acquisition system in desktop housing TG1CPU board, 1 free slotMA56901CPUTG1Messeingänge über:Messuring inputs via 1 MU board (10 inputs)

# ALMEMO<sup>®</sup> 5690-1CPUTG8



Dimensions: 444 x 158 x 232 mm (WxHxD)

Data acquisition system in desktop housing TG8 CPU board, 19 free slots MA56901CPUTG8 Measuring inputs via nine A10 or TH2 boards (90 inputs) or 19 MU boards (190 inputs) or four RTA5 output boards

# ALMEMO<sup>®</sup> 5690-1CPUTG3



Dimensions: 179 x 158 x 232 mm (WxHxD)

Data acquisition system in desktop housing TG3 CPU board, 6 free slots MA56901CPUTG3 Measuring inputs via three A10 or TH2 boards (30 inputs) or 6 MU boards (60 inputs) or three RTA5 output boards

# ALMEMO® 5690-1CPUBT8



Dimensions: 483 x 132 x 273 mm (WxHxD)

Data acquisition system in 19-inch rack housing CPU board, 19 free slots MA56901CPUBT8 Measuring inputs via nine A10 or TH2 boards (90 inputs) or 19 MU boards (190 inputs) or four RTA5 output boards



Carry case, aluminum profile frame ZB5600TK3 for ALMEMO<sup>®</sup> 5690-1/ -2



Rack case with handle ZB5090RC for ALMEMO<sup>®</sup> 5690-xxBT8 in 19-inch rack housing





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# 10/2021 • We reserve the right to make technical changes.

Order no.

# ALMEMO® Measuring Instruments

# ALMEMO<sup>®</sup> 5690-2CPU

## Technical data and functions

- Technical data and functions, as for ALMEMO® 5690 series
- CPU board with measuring circuit (without measuring inputs) and output sockets
- Up to 100 measuring inputs / 100 measuring channels via selector switch boards
- Option XU up to 190 measuring inputs / 250 measuring channels via selector switch boards
- Option XM high-speed measuring operations, up to 190 measuring inputs / 250 measuring channels via active measuring circuit boards The measuring circuit boards operate in parallel, thus ensuring short scanning times for a large number of channels. The scanning time is determined by the measuring circuit board with the highest number of active measuring channels or, at conversion rate 50 Hz, also by the processing time of the CPU.
- Option 5 ALMEMO<sup>®</sup> output sockets for digital interfaces, analog outputs, trigger, alarm contacts, socket P0 for integrated relay outputs
- Generously dimensioned graphics display, bright illumination, large display of measured values
- Measured values can be displayed graphically in line chart or bar chart form or numerically in various sizes.
- 3 user-defined menus can be freely configured from a range of 50 functions.
- Easy to operate by means of 4 soft-keys and cursor block, menu-guided with wizards and context-sensitive help windows
- Choice of languages : German, English, French

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• Data logger with internal RAM (standard) or FeRAM (option) and with micro SD card (standard).

# Technical data

Technical data, as for A	ALMEMO <sup>®</sup> 5690 series	Memory	Micro SD card, integrated drive
CPU board	Measuring circuit (without meas. inputs) Input boards (see page 01.54)	Outputs	5 ALMEMO <sup>®</sup> sockets, suitable for all output modules (analog / data / trigger /
Measuring inputs / measuring channels Standard up to 100 inputs / 100 measuring channels via selector switch boards Option XU up to 190 inputs / 250 measuring channels			relay cables, etc.) Alarm signal transmitter, internal Socket P0 for integrated relay outputs (option)
via selector switch boards		Or trigger and analog output (by request)	
Option XM	up to 190 inputs / 250 measuring channels via active measuring circuit boards	Display Graphics display	128 x 128 pixels, 16 rows
Memory, internal sufficient for 400,000 values, lin	sufficient for 400,000 values, linear	Illumination	5 white LEDs, 3 brightness levels
Standard Option SF	or ring memory RAM (buffered by battery) FeRAM (non-volatile)	Operation	9 keys (4 soft-keys and cursor block) 9 status LEDs on front panel

Input boards / expansions	Order no.
Option XM - selector switch boards and active measuring circuit boards	(see page 01.54)
Relay / trigger / analog board, 2 slots Per system up to 4 boards are supported. (see chapter "Output modules")	ES5690RTA5

## Options

A5690XU
A5690XM
DA5690SF
A5690KL
SB0000R2
SA0000Q5
A5690SH2
5690OH2
5

#### Standard delivery

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Precision measuring instrument, data acquisition system with graphics display and operating controls, CPU board Measuring circuit (without measuring inputs) Input boards must be ordered separately. (see page 01.54) Micro SD card, USB card reader, mains plug assembly ZB1212NA11, Operating instructions, manufacturer's test certificate.



#### ALMEMO® 5690-2CPUTG3



Dimensions: 179 x 158 x 232 mm (WxHxD)

Data acquisition system in desktop housing TG3 **MA56902CPUTG3** CPU board, 6 free slots Measuring inputs via three A10 or TH2 boards (30 inputs) or 6 MU boards (60 inputs) or three RTA5 output boards

# ALMEMO<sup>®</sup> 5690-2CPUWG3



Dimensions: 209 x 207 x 153 mm (WxHxD) (width includes fastening strips)

Data acquisition system in wall-mounted housing WG3 MA56902CPUWG3 CPU board, 6 free slots Measuring inputs via three A10 or TH2 boards (30 inputs) or 6 MU boards (60 inputs) or three RTA5 output boards The boards have their connections facing downwards. To fa-

cilitate wall-mounting four holes (5.3 mm) are provided on the protruding strips to the left and right of the housing's backplate (which cannot itself be removed).

## ALMEMO<sup>®</sup> 5690-2CPUTG8



Dimensions: 444 x H158 x T232 mm (WxHxD)

Data acquisition system in desktop housing TG8 CPU board, 19 free slots **MA56902CPUTG8** Measuring inputs via nine A10 or TH2 boards (90 inputs) or 19 MU boards (190 inputs) or four RTA5 output boards

# ALMEMO<sup>®</sup> 5690-2CPUBT8



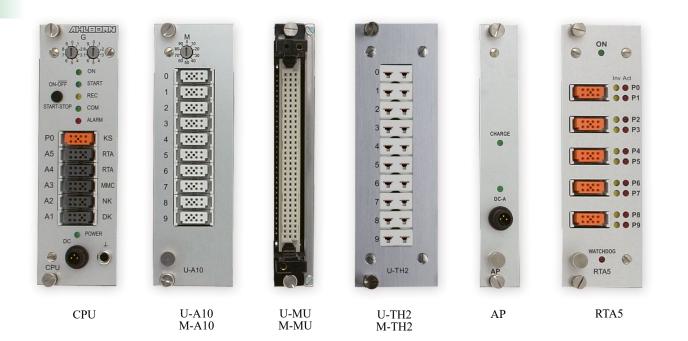
Dimensions: 483 x 132 x 273 mm (WxHxD)

Data acquisition system in 19-inch rack housing CPU board, 19 free slots **MA56902CPUBT8** Measuring inputs via nine A10 or TH2 boards (90 inputs) or 19 MU boards (190 inputs) or four RTA5 output boards



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#### CPU board, selector switch boards, active measuring circuit boards and expansions for CPU systems ALMEMO<sup>®</sup> 5690-1CPU and 5690-2CPU



# Input boards for ALMEMO® 5690-1CPU and 5690-2CPU

#### Technical data and functions

- Selector switch boards U-xx for CPU systems without options XU / XM or with option XU
- Active measuring circuit boards M-xx with own A/D converter for CPU systems with option XM

#### Input board U-A10 / M-A10



10 inputs for ALMEMO<sup>®</sup> single connectors. For flexible applications with individual sensors and measuring signals. • There are several design variants for different installations / input plugs.

#### Input board U-MU

10 inputs for ALMEMO<sup>®</sup> 10 MU connectors. For permanently installing groups of 10, especially temperature sensors.

## Technical data

Measuring inputs	10 ALMEMO <sup>®</sup> input sockets, electrically isolated
Measuring ranges	All ranges (see page 01.05)
Sensor supply	12 V, maximum 0.3 A (per system max. 1.5 A)
Footprint	2 slots

#### Standard delivery

5	
Selector switch board U-A10	ES5690UA10
Active measuring circuit board M-A10	
(for CPU system with option XM)	ES5690MA10

# **Technical data**

Measuring inputs	10 inputs, electrically isolated, socket strip for ALMEMO <sup>®</sup> 10-way MU connector
Measuring ranges	all thermocouples, Pt100, Ni100, NTC ohms, 2.6 V, 260 mV, 55 mV, 26 mV
Sensor supply	None
Footprint	1 slot

#### Standard delivery

Order no.

Selector switch board U-MU Active measuring circuit board M-MU (for CPU system with option XM) ALMEMO<sup>®</sup> 10-way MU connector Order no. ES5690UMU

ES5690MMU ZA5690MU

# Input board U-TH2

10 inputs for miniature thermal connectors. For any individual thermocouple temperature sensors with miniature thermal connector.

Order no.

#### **Technical data**

Measuring inputs	10 miniature thermal sockets, electr. isolated ALMEMO <sup>®</sup> sensor parameters are saved in the measuring instrument.
Measuring ranges	all thermocouples
Sensor supply	None
Footprint	2 slots

#### **Standard delivery**

Selector switch board U-TH2	ES5690UTH2	
Active measuring circuit board M-TH2		
(for CPU system with option XM)	ES5690MTH2	
Miniature thermal connectors must be ordered separately		





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