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**JUMO Process Control, Inc.**  
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# JUMO mTRON T

## Measuring, Control, and Automation System

### Analog input module 4-channel

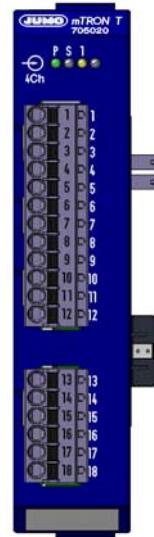
#### Brief description

The analog input module 4-channel is equipped with four universal analog inputs that are electrically isolated from each other for thermocouples, RTD temperature probes, resistance transmitters, resistance/potentiometers, or standard signals (current or voltage) as well as one digital input (DC 0/24 V). The digitized input values/states are available in the system for further processing.

LEDs are used to indicate applied voltage supply, the module operating status, as well as the logical status of the digital input.

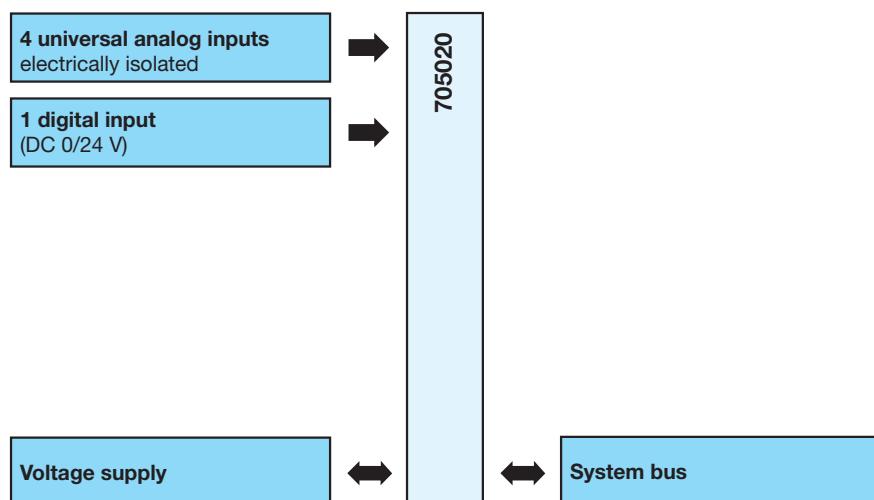
A setup program or the multifunction panel 840 can be used to comfortably configure the analog input module.

For service work, the module insert can be easily pulled out of the case at the front. The case including the bus PCB remains mounted on the DIN rail.



Type 705020/...

#### Block diagram



#### Features

- Four high-quality, universal analog inputs for thermocouples, RTD temperature probes, resistance transmitters, resistance/potentiometers, or standard signals
- All analog inputs are electrically isolated from each other
- Customer-specific linearization (up to 45 pairs of values or polynomial up to the 4th order)
- Limit value monitoring
- One digital input DC 0/24 V
- Automatic configuration after the module insert has been exchanged (hot swappable)
- Connection of the inputs at the front
- Removable terminal strips with Push-In technology
- Quick wiring of operating voltage and system bus due to easy module connection
- AMS2750/CQI-9 (extra code)

#### Approval/approval marks (see "Technical data")



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## Description

### Limit value monitoring

For each analog input, two separate alarms (min/max alarm) can be activated; each alarm has its own limit value. Alarm type, event text, collective alarm, alarm suppression, and alarm delay are configurable.

### Analog inputs

The four analog inputs are universal measuring inputs for RTD temperature probes, thermocouples, resistance transmitters, resistance/potentiometers, and standard signals (current, voltage). Linearizations for over 20 common measuring probes (RTD temperature probes, thermocouples) are saved. A measured value offset or a fine adjustment can be carried out to compensate for plant-specific deviations. Due to the measuring circuit monitoring, a measuring range that is too high or too low, probe/cable break, and probe/cable short circuit are detected – depending on the measuring element type – so that the system is switched to an operational safe status in the event of an error.

### Customer-specific linearization

A customer-specific linearization is also possible. The required linearization curve can be entered in the setup program using up to 45 pairs of values or a formula (polynomial up to the 4th order).

### Digital input

In addition, a digital input DC 0/24 V is available. The signal status can be used in the system in a flexible manner.

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## Technical data

### Analog inputs

#### General information

Number	4
A/D converter	Dynamic resolution up to 16 bit

#### Thermocouples

Designation	Standard	Measuring range	Measuring accuracy <sup>a</sup>	Ambient temperature influence
Fe-CuNi "L"		-200 to +900 °C	≤ 0.1 % from -100 °C	300 ppm/K
Fe-CuNi "J"	DIN EN 60584	-200 to +1200 °C	≤ 0.1 % from -100 °C	300 ppm/K
Cu-CuNi "U"		-200 to +600 °C	≤ 0.1 % from -130 °C	300 ppm/K
Cu-CuNi "T"	DIN EN 60584	-200 to +400 °C	≤ 0.1 % from -150 °C	300 ppm/K
NiCr-Ni "K"	DIN EN 60584	-200 to +1372 °C	≤ 0.1 % from -80 °C	300 ppm/K
NiCr-CuNi „E“	DIN EN 60584	-200 to +1000 °C	≤ 0.1 % from -80 °C	300 ppm/K
NiCrSi-NiSi "N"	DIN EN 60584	-100 to +1300 °C	≤ 0.1 % from -80 °C	300 ppm/K
Pt10Rh-Pt "S"	DIN EN 60584	-50 to 1768 °C	≤ 0.15 % from 20 °C	300 ppm/K
Pt13Rh-Pt "R"	DIN EN 60584	-50 to 1768 °C	≤ 0.15 % from 20 °C	300 ppm/K
Pt30Rh-Pt6Rh "B"	DIN EN 60584	0 to 1820 °C	≤ 0.15 % from 400 °C	300 ppm/K
W5Re-W26Re „C“		0 to 2320 °C	≤ 0.15 % from 500 °C	300 ppm/K
W3Re-W25Re "D"		0 to 2495 °C	≤ 0.15 % from 500 °C	300 ppm/K
W3Re-W26Re		0 to 2400 °C	≤ 0.15 % from 500 °C	300 ppm/K
Chromel-Copel	GOST 8.585-2001	-200 to +800 °C	≤ 0.15 % from -80 °C	300 ppm/K
Chromel-Alumel	GOST 8.585-2001	-200 to +1372 °C	≤ 0.10 % from -80 °C	300 ppm/K
PLII (Platinel II)		0 to 1395 °C	≤ 0.10 % from -80 °C	300 ppm/K
Linear		0 to 75 mV	≤ 0.1 %	300 ppm/K
Cold junction		Pt100 internal		
Cold junction accuracy		± 1 K		

<sup>a</sup> The accuracy values refer to the maximum measuring range. Smaller measuring ranges lead to reduced linearization accuracy.

#### RTD temperature probe

Designation	Standard	Measuring range	Measuring accuracy <sup>a</sup>	Ambient temperature influence
Pt100	DIN EN 60751	-200 to +850 °C		50 ppm/K
2-wire circuit			≤ 0.15 %	
3-wire/4-wire circuit			≤ 0.05 %	
Pt500	DIN EN 60751	-200 to +850 °C		50 ppm/K
2-wire circuit			≤ 0.30 %	
3-wire/4-wire circuit			≤ 0.15 %	
Pt1000	DIN EN 60751	-200 to +850 °C		50 ppm/K
2-wire circuit			≤ 0.20 %	
3-wire/4-wire circuit			≤ 0.08 %	
Ni 100	DIN 43760	-60 to +250 °C		50 ppm/K
2-wire circuit			≤ 0.36 %	
3-wire/4-wire circuit			≤ 0.24 %	
Pt100	JIS 1604	-200 to +650 °C		50 ppm/K
2-wire circuit			≤ 0.20 %	
3-wire/4-wire circuit			≤ 0.06 %	

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Designation	Standard	Measuring range	Measuring accuracy <sup>a</sup>	Ambient temperature influence
Pt50	GOST 6651-94	-200 to +1100 °C	≤ 0.30 % ≤ 0.06 %	50 ppm/K
2-wire circuit				
3-wire/4-wire circuit				
Pt100	GOST 6651-94	-200 to +850 °C	≤ 0.15 % ≤ 0.05 %	50 ppm/K
2-wire circuit				
3-wire/4-wire circuit				
Cu50	GOST 6651-94	-50 to +200 °C	≤ 0.80 % ≤ 0.60 %	200 ppm/K
2-wire circuit				
3-wire/4-wire circuit				
Cu100	GOST 6651-94	-50 to +200 °C	≤ 0.80 % ≤ 0.50 %	200 ppm/K
2-wire circuit				
3-wire/4-wire circuit				
KTY11-6		-50 to +150 °C	≤ 1 % ≤ 0.24 %	50 ppm/K
2-wire circuit				
3-wire/4-wire circuit				
Sensor lead resistance		Max. 30 Ω per lead with a 3-wire and 4-wire circuit Max. 10 Ω per lead with a 2-wire circuit		
Measuring current		Pt100 approx. 250 μA, Pt500, and Pt1000 approx. 100 μA; not constant		
Lead compensation		Not required for 3-wire and 4-wire circuit. For a 2-wire circuit, the lead resistance can be compensated in the software by correcting the process value.		

<sup>a</sup> The accuracy values refer to the maximum measuring range. Smaller measuring ranges lead to reduced linearization accuracy.

## Standard signals

Designation	Measuring range	Measuring accuracy <sup>a</sup>	Ambient temperature influence
Voltage			
Input resistance $R_E > 500 \text{ k}\Omega$	DC 0(2) to 10 V	≤ 0.05 %	100 ppm/K
Input resistance $R_E > 100 \text{ k}\Omega$	DC 0 to 1 V		
Current (voltage drop ≤ 2 V)	DC 0(4) to 20 mA	≤ 0.05 %	100 ppm/K
Resistance transmitter	min. 100 Ω, max. 4 kΩ	± 4 Ω	100 ppm/K
Resistance/potentiometer	< 400 Ω 400 Ω to 4 kΩ	± 0.4 Ω ± 4 Ω	50 ppm/K 50 ppm/K

<sup>a</sup> The accuracy values refer to the maximum measuring range. Smaller measuring ranges lead to reduced linearization accuracy.

## Measuring circuit monitoring

In the event of an error the digitized output values move to a defined status.

Measuring element	Out of range	Probe/cable short circuit	Probe/cable break
Thermocouple	Is detected	Is not detected	Is detected
RTD temperature probe	Is detected	Is detected	Is detected
Voltage			
2 to 10 V	Is detected	Is detected	Is detected
0 to 10 V	Is detected	Is not detected	Is not detected
0 to 1 V	Is detected	Is not detected	Is not detected
Current			
4 to 20 mA	Is detected	Is detected	Is detected
0 to 20 mA	Is detected	Is not detected	Is not detected
Resistance transmitter	Is detected	Is not detected	Is detected
Resistance/potentiometer	Is detected	Is detected	Is detected

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## Digital input

Number	1
Input signal	DC 0/24 V (PLC level; logical "0" = -3 to +5 V; logical "1" = +15 to +30 V)

## Electrical data

Voltage supply Connection Voltage Residual ripple	Lateral (feed via base unit or router module) DC 24 V +25/-20 % 5 %
Current consumption	130 mA (at DC 19.2 V)
Power consumption	3 W
Inputs (terminals 1 to 18) Connection	At the front (removable terminal strips with Push-In technology)
Conductor cross section on terminals 1 to 18 Wire or strand without ferrule Strand with ferrule	Min. 0.14 mm <sup>2</sup> , max. 1.5 mm <sup>2</sup> Without plastic collar: Min. 0.25 mm <sup>2</sup> , max. 1.5 mm <sup>2</sup> With plastic collar: Min. 0.25 mm <sup>2</sup> , max. 0.5 mm <sup>2</sup>
Stripping length on terminals 1 to 18	9 mm
Electrical safety	Acc. to DIN EN 61010-1 Overvoltage category III, pollution degree 2
Electromagnetic compatibility Interference emission Interference immunity	Acc. to DIN EN 61326-1 Class A – only for industrial use – Industrial requirements

## Case and ambient conditions

Case type	Plastic case for DIN rail mounting in the control cabinet (indoor use); DIN rail acc. to DIN EN 60715, 35 mm x 7.5 mm x 1 mm
Dimensions (W x H x D)	22.5 m x 103.6 m x 101.5 m (without connection elements)
Weight	Approx. 140 g
Protection rating	IP 20, acc. to DIN EN 60529
Ambient temperature range	-20 to +55 °C
Storage temperature range	-40 to +70 °C
Resistance to climatic conditions	Relative humidity ≤ 90 % annual average without condensation (climatic class 3K3 acc. to DIN EN 60721-3-3 with extended temperature and humidity range)
Site altitude	Up to 2000 m above sea level
Mechanical ambient conditions <sup>a</sup>	Classification acc. to DIN EN 60721-3-3, table 6, class 3M2

<sup>a</sup> Test conditions are listed in the System Descripion B 705000.8.

## Approval/approval marks

Approval mark	Testing agency	Certificate/certification number	Inspection basis	Valid for
c UL us	Underwriters Laboratories	E201387	UL 61010-1 (3. Ed.), CAN/CSA-22.2 No. 61010-1 (3. Ed.)	all types
DNV GL	DNV GL	TAA000016N	Class Guideline DNVGL-CG-0339	all types; a power supply unit with DNV GL or GL type approval is required (e.g. type 705090)

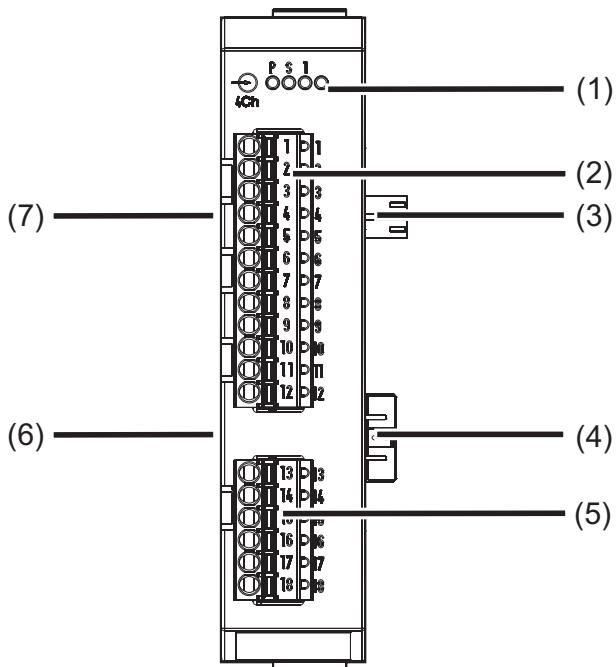
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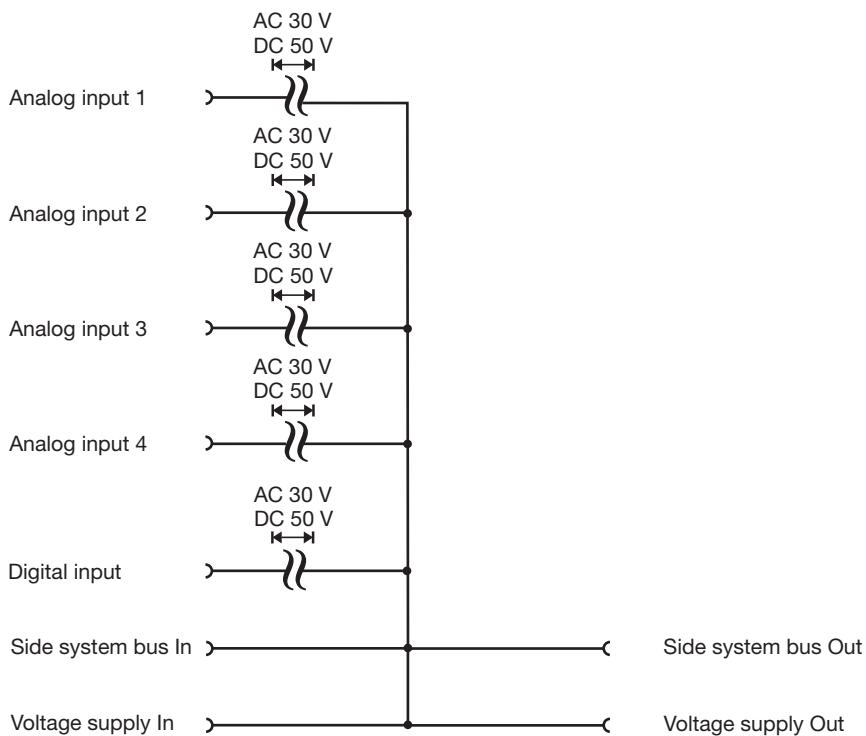


## Display and connection elements



- (1) Status displays (LED)  
P = Voltage supply  
S = Status  
1 = Digital input  
(LED is lit: Active)
- (2) Analog input 1 to 3
- (3) Voltage supply Out, DC 24 V
- (4) Side system bus Out
- (5) Analog input 4;  
digital input
- (6) Side system bus In
- (7) Voltage supply In, DC 24 V

## Electrical isolation



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## Connection diagram

The connection diagram included in the data sheet provides initial information about the connection options. Only use the installation instructions or the operating manual for the electrical connection. The know-how and the correct technical implementation of the safety warnings/instructions contained in these documents are the prerequisite for the installation, electrical connection, and initial start as well as for the safety during operation.

### Analog inputs

Connection	Input	Terminals	Symbol and terminal designation
Thermocouple	1 2 3 4	2 and 3 6 and 7 10 and 11 14 and 15	+ —○ 2, 6, 10, 14 —○ 3, 7, 11, 15
RTD temperature probe 2-wire circuit	1 2 3 4	2 and 4 6 and 8 10 and 12 14 and 16	○ 2, 6, 10, 14 —○ 9 —○ 4, 8, 12, 16
RTD temperature probe 3-wire circuit	1 2 3 4	2 to 4 6 to 8 10 to 12 14 to 16	○ 2, 6, 10, 14 —○ 9 —○ 3, 7, 11, 15 —○ 4, 8, 12, 16
RTD temperature probe 4-wire circuit	1 2 3 4	1 to 4 5 to 8 9 to 12 13 to 16	○ 1, 5, 9, 13 —○ 2, 6, 10, 14 —○ 9 —○ 3, 7, 11, 15 —○ 4, 8, 12, 16
Voltage DC 0(2) to 10 V	1 2 3 4	1 and 2 5 and 6 9 and 10 13 and 14	+ ○ 1, 5, 9, 13 U <sub>X</sub> — ○ 2, 6, 10, 14
Voltage DC 0 to 1 V	1 2 3 4	2 and 3 6 and 7 10 and 11 14 and 15	+ ○ 2, 6, 10, 14 U <sub>X</sub> — ○ 3, 7, 11, 15
Current DC 0(4) to 20 mA	1 2 3 4	3 and 4 7 and 8 11 and 12 15 and 16	+ ○ 3, 7, 11, 15 I <sub>X</sub> — ○ 4, 8, 12, 16
Resistance transmitter	1 2 3 4	2 to 4 6 to 8 10 to 12 14 to 16	E S A —○ 2, 6, 10, 14 —○ 3, 7, 11, 15 —○ 4, 8, 12, 16
Resistance/potentiometer 2-wire circuit	1 2 3 4	2 and 4 6 and 8 10 and 12 14 and 16	—○ 2, 6, 10, 14 —○ 9 —○ 4, 8, 12, 16
Resistance/potentiometer 3-wire circuit	1 2 3 4	2 to 4 6 to 8 10 to 12 14 to 16	—○ 2, 6, 10, 14 —○ 3, 7, 11, 15 —○ 4, 8, 12, 16

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Connection	Input	Terminals	Symbol and terminal designation
Resistance/potentiometer 4-wire circuit	1 2 3 4	1 to 4 5 to 8 9 to 12 13 to 16	<ul style="list-style-type: none"> <li>○ 1, 5, 9, 13</li> <li>○ 2, 6, 10, 14</li> <li>○ 3, 7, 11, 15</li> <li>○ 4, 8, 12, 16</li> </ul>

## Digital input

Connection	Input	Terminals	Symbol and terminal designation
Digital input DC 0/24 V	1	17 and 18	<ul style="list-style-type: none"> <li>+ —————○ 17</li> <li>Ux</li> <li>- —————○ 18</li> </ul>

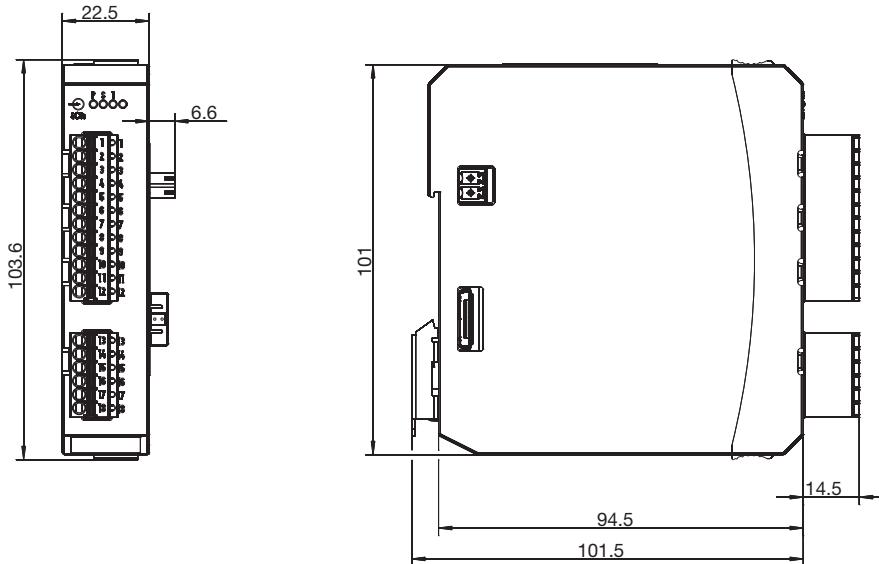
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## Dimensions



## Module overview

### Base units

- Central processing unit  
Data sheet 705001

### Input/output modules

- Multichannel controller module  
Data sheet 705010
- Relay module 4-channel  
Data sheet 705015
- Analog input module 4-channel  
Data sheet 705020
- Analog input module 8-channel  
Data sheet 705021
- Analog output module 4-channel  
Data sheet 705025
- Digital input/output module 12-channel  
Data sheet 705030
- Thyristor power controller type 70906x  
Data sheet 709061, 709062, 709063

### Special modules

- Router module  
Data sheet 705040

### Operating, visualization, recording

- Multifunction panel 840  
Data sheet 705060
- Operating panels  
Data sheet 705065

### Power supply units

- 705090/05-33  
Data sheet 705090
- 705090/10-33  
Data sheet 705090

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## Order details

<b>(1) Basic type</b>	
705020	Analog input module 4-channel
<b>(2) Voltage supply</b>	
36	DC 24 V +25/-20 %
<b>(3) DNV GL approval</b>	
000	Without approval
062	With DNV GL approval <sup>a</sup>
<b>(4) Extra codes</b>	
000	Without extra code
879	AMS2750/CQI-9 <sup>b</sup>

<sup>a</sup> The power supply unit used must also have a DNV GL or GL type approval (e.g. type 705090).

<sup>b</sup> For the calibration certificate the channels to be checked are to be defined with the thermocouple type and the desired measuring points.

<b>Order code</b>	<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>
<b>Order example</b>	705020	/ 36	/ 000	, 000

## Scope of delivery

1 analog input module, 4-channel
1 Installation Instructions

## General accessories

Description	Part no.
JUMO mTRON T system manual, English	00575577
Setup program with program editor JUMO mTRON T (on MiniDVD), incl. USB cable (A-plug to mini-B-plug, 3 m)	00569494
Program editor JUMO mTRON T (on MiniDVD), incl. USB cable (A-plug to mini-B-plug, 3 m)	00622333
PCA3000/PCC JUMO software package	00431884
PC Evaluation Software PCA3000	00431882
Release automatic print for PC Evaluation Software PCA3000	00505548
PCA Communication Software PCC	00431879
Plant Visualization Software JUMO SVS3000: See data sheet 700755	-
USB cable A-plug mini-B-plug 3 m	00506252

Content of the Mini-DVD:

- Setup program with program editor JUMO mTRON T in case of part no. 00569494
- Program editor JUMO mTRON T in case of part no. 00622333
- CODESYS programming software (free version)
- CODESYS Repository Package - Operating panels (free version)
- GSD file JUMO mTRON T - CPU (free version)
- PC Evaluation Software PCA3000 (30-day trial version)
- PCA Communication Software PCC (30-day trial version)
- Documentation in PDF format