

Multi-loop Process Controller P500 with powerful PLC functionality, extensible with hardware modules

Intelligent,
compact and efficient



1...4 channel fixed-value, ratio, override and cascade controller

Dead time algorithm (Smith predictor)

Spray-water protected front panel IP 65

Brilliant LCD display with color interchange red/green

Basic unit with 2 analog inputs, 1 analog output and 4 digital inputs/outputs

Universal input for temperature sensor

Filtering, linearization and square-rooting of the input signal

Ramp rate for set point and output signal

Programmer and program controller

High and low limitation for set point and output signal

Preconfigured input signal connection

Analog or switching controller output

Self-setting of parameters and parameter control

Lock for 'parameter setting' and 'configuration' by means of password or digital input

Additional plug-in modules

— For analog and digital inputs and outputs

Serial interface

— For parameterization and configuration as standard

Buscapable interface

— For Modbus or PROFIBUS

Data storage in Flash-EPROM

Description

The 1...4 channel process controllers P500 (Protronic 500) and P550 (Protronic 550) are universally usable models of the Protronic series. They can be operated as process specific single units or in a system network with other Protronic controllers or in conjunction with higher-level systems.

The non-upgradable P100 (Protronic 100) is visually identical to the P500 (Protronic 500), described in Data Sheet 10/62-6.11 EN.

The P500 (Protronic 500) and P550 (Protronic 550) models differ only in their front control panels.

P500 (Protronic 500)

This front panel distinctly shows the current measured values and operating modes, from a long distance, in illuminated displays. For operation, all information is clearly presented on an LC display.

P550 (Protronic 550)

The P550 (Protronic 550) has a graphical front control panel. On a graphical display with 108 x 240 dots a large amount of different information can be shown. By means of keys a parallel display of several control channels or the time-related characteristic of variables can be selected.

The basic model has ...

... a universal input. Without modification of the unit hardware, thermocouples, Pt100 resistance thermometers, and also standard signals 0/4...20 mA can be connected. When non-linearized temperature transmitters are used, linearization is carried out in the controller. The linearization tables for all standard sensors are stored in the unit.

... an mA input, which is usable as a disturbance variable or set point input. In step controllers this input can be used for position feedback signal.

... an mA output for the positioning signal or other values, e.g. for set point and actual value.

... four binary inputs/outputs. These inputs/outputs are user-configurable as inputs or outputs. They are therefore optionally usable as controller outputs or alarm value outputs, but also as inputs for switchover in the controller (e.g. manual/automatic).

... a front-panel TTL interface for connection of a parameter setting and configuration PC. This facilitates the necessary adjustments during commissioning.

Hardware extensions

... 7 module slots for expansion of the functions

... 1 slot for memory card (front panel)

Front control panel

The front control panel gives information on the state of the process and permits specifically-targeted intervention in the process sequence. Illuminated displays, which can also be seen

from a distance, indicate the process state. Digital displays and cleartext information permit precise reading and accurate setting of set point and correction values.

Programmer

Every unit has a configurable programmer which provides a time-dependent set point. Up to 10 programs with 15 segments each can be stored in the unit.

Controller outputs

Two-position controller, PID characteristic without or with leading contact for high/low/off levelling.

Controller for heating/off/cooling, optionally with two switching or one continuous and one switching output.

Step controller for motorised valve control.

Continuous controller, optionally also split-range output with two continuous positioning signals.

Parameter setting

After entering a password, the user accesses the parameter setting level by means of a menu key. At the parameter setting level parameters for the available functions, such as controller gain K_p or time constants, can be set.

Configuration

Configuration can be effected in two ways:

List configuration

The menu key accesses the password-protected configuration level. There the standard functions are selected from a list provided in the unit. As an alternative to the user keyboard, the selection can also be made by way of the PC program **IBIS-R**. This especially simplifies the setting procedure if several units are to be set at the same time (see Data Sheet 10/62-6.70 EN).

Free configuration

Appr. prepared models allow for customer-specific configuration, i.e. functions beyond the standard functions of the controller.

The PC program **IBIS-R** enables a graphical programming with function block diagrams for realising any special calculation or PLC functions.

Retrofitting the plug-in Confi IC allows subsequent free configurability.

Technical data

Inputs

Common data:

without electronical isolation
Resolution $\leq 0.01\%$
Accuracy (referred to nominal range) $\leq 0.2\%$
Temperature effects $\leq 0.2\%/10^\circ\text{C}$
Hardware input filter limit frequency 7 Hz

Permissible common-mode voltage against device ground

$\leq \pm 4\text{ V DC}$

Permissible differential-mode voltage U_{ss} (50 Hz):

50 mV_{ss}

Analog:

Universal input AI01

used for standard signal

0/4...20 mA at 50 $\Omega \pm 1\%$

Overcurrent/polarity reversal protection

up to $\pm 40\text{ mA}$

Linearization, square-rooting

configurable

at 4...20 mA

Line break monitoring with configurable reaction

used for thermocouples

Types	Temperature range	Voltage range	Typical accuracy
J	-200...1200 °C	77.43 mV	$\leq 0.2\%$
E	-200...1000 °C	85.18 mV	$\leq 0.2\%$
K	-200...1400 °C	61.53 mV	$\leq 0.2\%$
L	-200...1000 °C	78.21 mV	$\leq 0.2\%$
U	-200... 600 °C	40.00 mV	$\leq 0.3\%$
R	0...1700 °C	20.22 mV	$\leq 0.5\%$
S	0...1800 °C	18.72 mV	$\leq 0.5\%$
T	-200... 400 °C	26.47 mV	$\leq 0.4\%$
B	0...1800 °C	13.24 mV	$\leq 0.6\%$
D	0...2300 °C	36.92 mV	$\leq 0.4\%$

Reference junction compensation

internal or external: 0, 20, 50 or 60 °C

Internal reference junction

Error limit	$\pm 1^\circ\text{C}/10\text{ K}$
Reference temperature	$22^\circ\text{C} \pm 1^\circ\text{C}$
Ambient temperature	0...50 °C

Sensor break monitoring

with configurable reaction

Used for resistance thermometer Pt100 DIN

Measuring range

-200.0...+200.0 °C
-200.0...+800.0 °C

Measuring current

$\leq 1\text{ mA}$

Measuring circuit

2-wire circuit to 40 Ω line resistance, Line balancing by software

3-wire circuit

for symmetrical lines up to $3 \times 10\ \Omega$

4-wire circuit

sensor short-circuit and break monitoring with configurable reaction

used for resistance teletransmitter (potentiometer)

Measuring ranges

75...200 Ω ; 750...2000 Ω

Measuring current

$\leq 1\text{ mA}$

other data as resistance thermometer

Analog input 2 (AI02)

Input for mA signals, technical data as AI01, but without electronical isolation. 0...10 V as option (see Code No. 310).

Binary:

4 binary inputs/outputs

Direct/reverse function configurable

Input DIN 19240	Rated signal V DC	Voltage range (V)	Current range
Rated level	24	20.4...28.8	approx. 1 mA
1-signal	24	13.0...30.2	approx. 1 mA
0-signal	0	- 3.0... 5.0	< 0.2 mA

Output DIN 19240	Rated signal V DC	Voltage range (V)	Current range
Rated level	24 ext.	20.4...28.8	100 mA
1-signal	24	13.0...30.2	0...max. mA
0-signal	0	- 3.0... 5.0	0...0.15 mA

Switches off in case of overload. Switching frequency $\leq 8\text{ Hz}$

Outputs

Analog:

Control output or retransmission

0/4...20 mA at max. 750 Ω , short-circuit and open-circuit proof

Control range

0... $\geq 21\text{ mA}$

Load-dependency

0.1 %/100 Ω

Resolution

$\leq 0.01\%$

Binary:

see inputs

Transmitter feed

Output voltage

20...24 V DC, 100 mA, short-circuit proof

Load monitoring

Output automatically cuts off on overload

Programmer

10 programs can be stored

each program:
15 segments
Set point in physical units
Segment time 0...99:59:59 hours, four digital tracks

Serial interfaces

TTL interface accessible after removing front panel module for connection to PC via TTL/RS 232 converter (Catalog Number 62695-0346270) with fixed telegram format matching parameter setting and configuration program IBIS-R (see Data Sheet 10/62-6.70 EN). Bus capable RS 485 interface retrofittable (see modules).

CPU data

Measured value and correction value resolution

≤ 0.01 %

Cycle time

Protronic 500 ≥ 45 ms (master setting without add. modules)
Protronic 550 ≥ 50 ms (master setting without add. modules)

Data backup

Flash-EEPROM; optionally on memory card

Power supply

115 to 230 V AC (90...260 V), 47...63 Hz

Power consumption:
Protronic 500 without modules 9 VA (6 W)
Protronic 550 without modules 12 VA (9 W)
Max. component mounting + 12 VA (9 W)
Power failure bridging ≥ 150 ms at ≥ 180 V AC

24 V UC

24 V DC -25...+30 %, Residual ripple ≤ ± 3 V_{ss}
24 V AC -15...+10 %, 47...63 Hz
Power consumption:
Protronic 500 without modules 10 VA (7 W)
Protronic 550 without modules 13 VA (9 W)
Max. component mounting + 13 VA (9 W)
Power failure bridging ≥ 20 ms at 0.85 x U_{Nenn}

Power factor

cosφ = 0.7

Safety

The device needs no external safety of power supply

Environmental conditions

Climatic class

3K3 to EN 60721-3-3

Ambient temperature

0...50 °C

Storage and transport temperature

-20...+70 °C

Relative humidity

< 85 %, short-term to 95 %, no condensation

Minimum atmospheric pressure

80 kPa

Electromagnetic compatibility

Meets protection requirements of EMC directive 89/336/EEC

EMC requirements EN 61326/A2:2001

Interference emission referred to: EN 55011, class B

Industry standard to NAMUR NE 21/1998-08

Maximum immunity if assembled in metallic plant

Connection, case, safety

Degree of protection to DIN EN 60529

Front panel: IP 65
Case: IP 20
Terminals: IP 20

Electrical safety

Class of protection 1 to EN 61010-1/A2:1995 (VDE 0411 T.1/A1)

Clearances and creepage distances as per EN for overvoltage category 3, degree of contamination 2

All inputs and outputs, including the interface and the transmitter feed are functional extra-low voltage circuits to HD384-4-41S2:1996 (IEC 364-4-41 imod.:1992) The safe isolation of these circuits meets the requirements to EN 61140:2001 (VDE 0140 T1).

Mechanical stress features

to EN 60068-2-6 and EN 60068-2-27

Shock 30 g/18 ms
Vibration 2 g/0.15 mm/5...150 Hz

Case dimensions

Front panel 72 mm x 144 mm
Installed depth 272 mm

Panel cutout

68 mm x 138 mm to DIN 43700

Mounting

in panel
Horizontal high-density construction possible
Vertical spacing 36 mm
Fixing with straining screws at top and bottom

Electrical connections

Plug-in screw terminals

for wire or stranded wire to 1.5 mm², coded

Power supply

2.5 mm²

No shielded cables required – except for interface leads

Mounting orientation

any

Weight

1 kg without modules
each module approx. 40 g,
Relay module approx. 80 g

Scope of supply and delivery

2 straining screws, operating manual and
plug-in screw terminals

Modules

With few exceptions, the modules can be run at all slots (see table page 11). The controllers identify the inserted modules automatically.

Analog inputs

Module AE4_MA for standard signals

4 inputs

0/4...20 mA with electrical isolation

Input resistance

approx. 50 Ω

Signal resolution

$\leq 0.01\%$ for 20 mA

Permissible common-mode voltage

$\leq \pm 4$ V against device ground

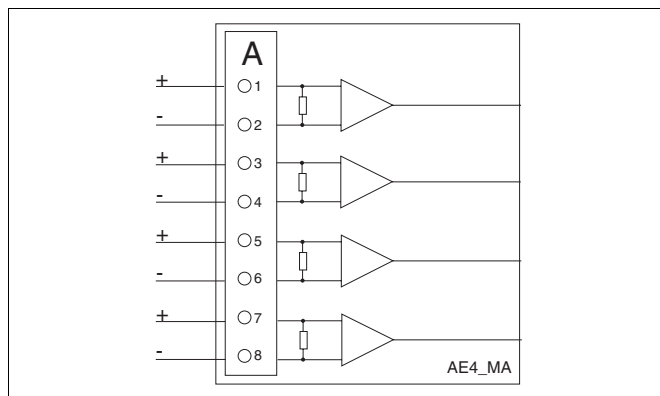
Permissible differential-mode voltage

50 mV_{SS}

Destruction proof

Input current < 50 mA

Voltage between input and ground ± 50 V



Module AE4_MA-MUS

for mA or V signals, integrated transmitter feed
(pay attention to maximum power consumption, page 11)

4 inputs

0/4...20 mA, indiv. switchable to 0/2...10 V with common ground

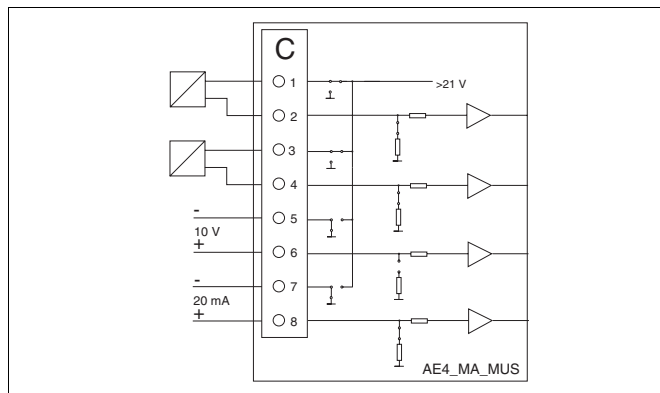
Input resistance at

mA input: approx. 50 Ω ; 10 V input: 20 k Ω

Transmitter feed: 20 V, 82 mA

Other data as module 4_MA

Example of an input configuration



Module 4_MV for thermocouples

4 inputs

-10...80 mV, with electrical isolation

Signal resolution: 20.000 for -10...80 mV

Input resistance: approx. 5 M Ω

Permissible common-mode voltage: $\leq \pm 4$ V against device ground

Permissible differential-mode voltage: 50 mV_{SS}

Destruction proof

Voltage at one input ± 10 V

Voltage between input and ground ± 50 V

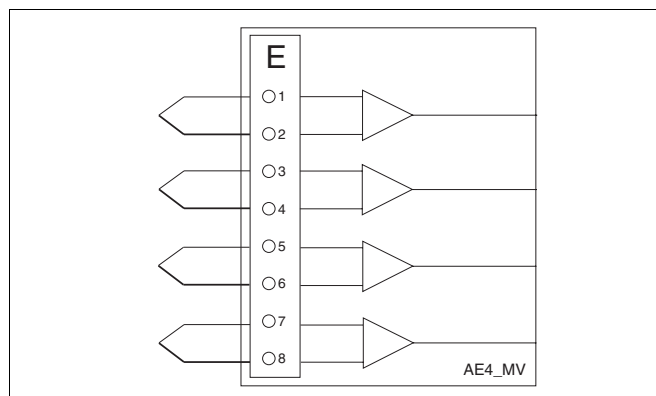
Break monitoring

configurable reaction

Reference junction compensation

configurable, internal or external 0, 20, 50 or 60 °C

Linearization configurable like AI01



Module AE2_MA/MV-TR

for mA signals or thermocouple with electrical isolation

2 inputs with electrical isolation

0/4...20 mA or -10...80 mV (changeable by means of jumpers)

Input resistance at

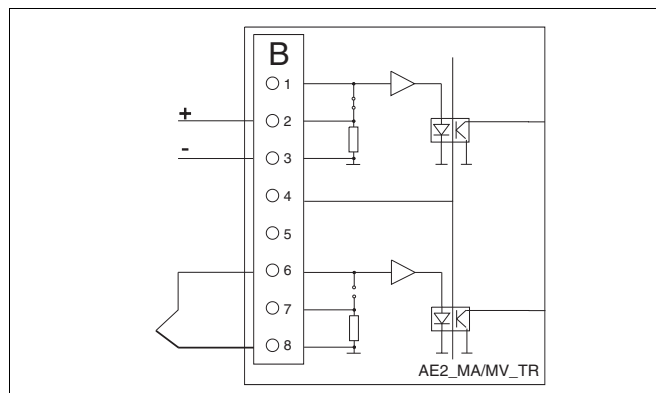
20 mA: 25 Ω ; -10...80 mV: approx. 5 M Ω

Dielectric strength of input and output leads against each other and against grounded conductor:

Test voltage 500 V AC

Continuous operation 45 V AC

Technical data as modules 4_MV or 4_MA



Module AE4_PT_2L for RTD 2-wires

4 inputs

for Pt100 in 2-wire circuit without electrical isolation

Range

0...400 Ω

Permissible differential mode voltage

100 mV_{ss}

Signal resolution

$\leq 0.01\%$ for 400 Ω

Measuring current

≤ 1.5 mA

Measuring range configurable

-200.0...+200.0 $^{\circ}\text{C}$

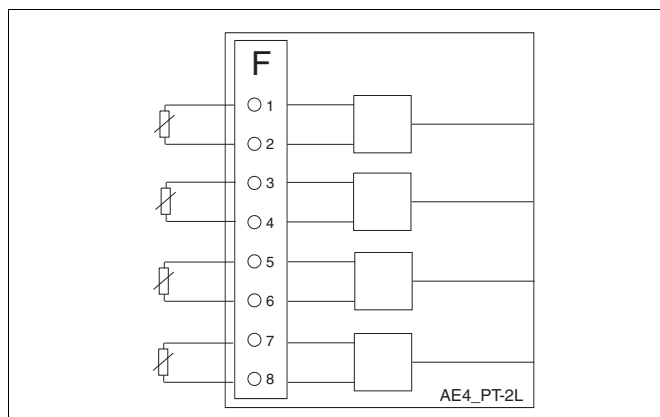
0.0...+450.0 $^{\circ}\text{C}$

-200.0...+800.0 $^{\circ}\text{C}$

Line balancing by software

Sensor break and short-circuit monitoring

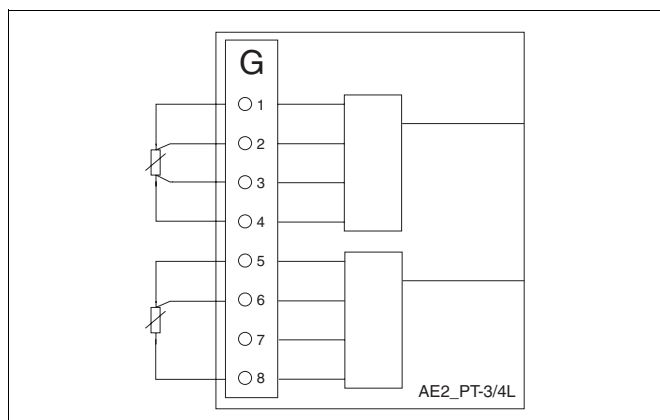
configurable reaction



Module AE2_PT-3/4L for RTD 3-/4-wires

2 inputs

for Pt100 in 3- or 4-wire circuit or potentiometer



Technical data for Pt100 as module AE4_PT_2_L

Potentiometer R150

0...150 Ω

Series resistance

0...500 Ω

Measuring current

< 1.5 mA

Potentiometer R1500

0...1500 Ω

Series resistance

0...1500 Ω

Measuring current

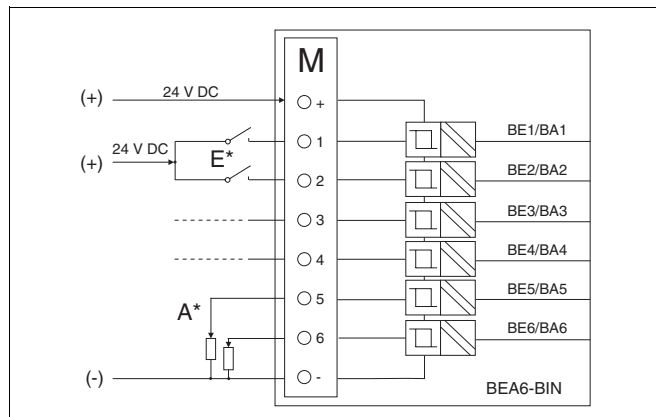
< 0.5 mA

Binary inputs/outputs

Module BEA6-BIN

6 binary inputs/outputs, electrical isolation

Function configurable as input or output, direct or reverse action



*) Connection example: I = binary inputs; O = binary outputs

Input DIN 19240	Rated signal V DC	Voltage range (V)	Current range
Rated level	24	20.4...28.8	approx. 3 mA
1-signal	24	13.0...30.2	approx. 3 mA
0-signal	0	-3.0...5.0	≤ 0.1 mA

Output DIN 19240	Rated signal V DC	Voltage range (V)	Current range
Rated level	24 ext	20.4...28.8	100 mA
1-Signal	24	13.0...30.2	0...max. mA
0-Signal	0	-3.0...5.0	0...0.1 mA

Real time clock

Module BEA4_RTC

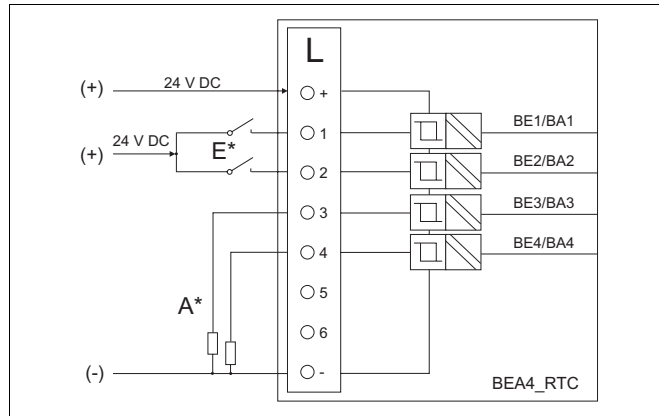
Real time clock with date, weekday and time

Daylight saving time and leap year switching

Synchronisation by digital input

Battery buffer or capacitor buffer (> 72 h)

4 digital I/O, galvanical isolated, function configurable as inputs or outputs (technical data see Module BEA6-BIN)



*) Connection example: I = binary inputs; O = binary outputs

Module BA4_REL (only usable at slot 6 and 7)

4 relays

with NO contact for max. 250 V AC, 1 A resistive load

Built-in spark-quenching

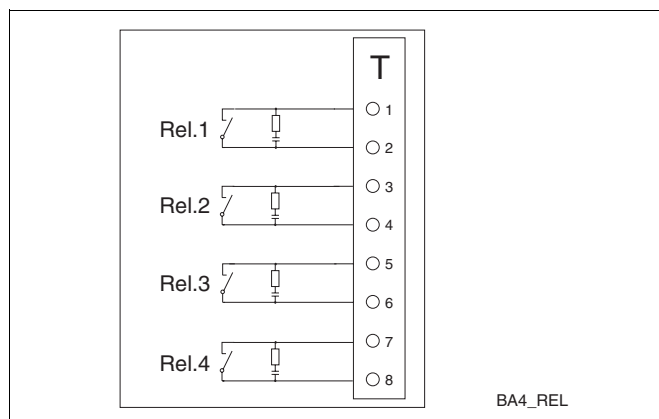
0.022 μ F + 100 Ω

For max. 250 V

max. 1 A at $\cos\phi = 0.9$

Contact material

AgCdO



Module AE4_F

4 inputs for:

Frequency (1/4 inputs)

Range 1 input	0...20 kHz
Range 4 inputs	0...10 kHz
Signal resolution	1 Hz

Periode (1-4 inputs)

Range	0...20 s
Signal resolution	1 ms

Impulses (1-4 inputs)/incremental angle (2 inputs)

Range: 0...20.000 impulses/cycletime
min. impulse length: 50 μ s

Absolute incremental angle (1 input)

Range: 0...20.000 impulses
min. impulse length: 50 μ s

Types of input signals:

Max. 2 Namur inputs according to DIN 19234

Open circuit voltage	$U_i = 9.5$ V
Internal resistance	$R_i = 1$ k Ω
Signal range	$L = 0...1.2$ mA/H = 2.1...4.0 mA

Max. 4 digital inputs according to DIN 19240 (0/24 V DC)

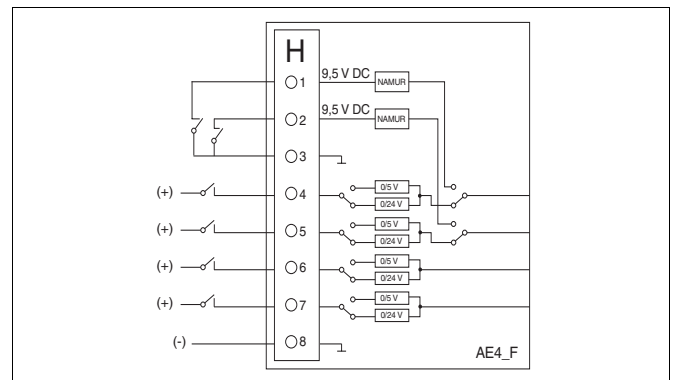
Input resistance	$R_E > 6$ k Ω
Signal range	$L = -3...5$ V/H = 13...20.2 V

Max. 4 digital inputs TTL (0/5 V DC)

Input resistance	$R_E > 6$ k Ω
Signal range	$L = 0...0.8$ V/H = 3.5...24 V

Accuracy

± 0.1 %



Analog outputs

Module AA3_MA

(pay attention to maximum power consumption, page 10)

Triple current output

0/4...20 mA at 750 Ω

Signal resolution

$\leq 0.02\%$ for 20 mA

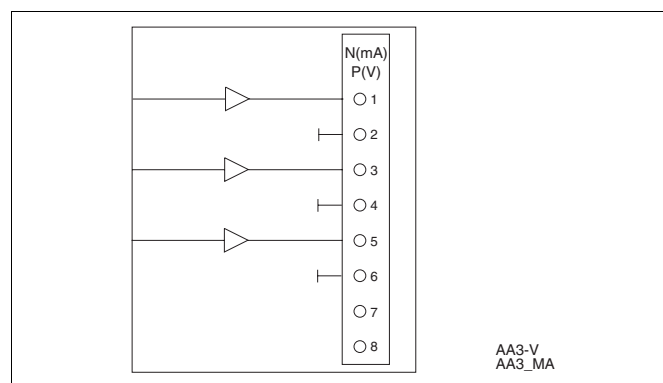
Load dependency

0.1 %/100 Ω

Output monitoring, reaction configurable

Module AA3_V

Triple voltage output 0/2...10 V $\geq 5\text{ k}\Omega$

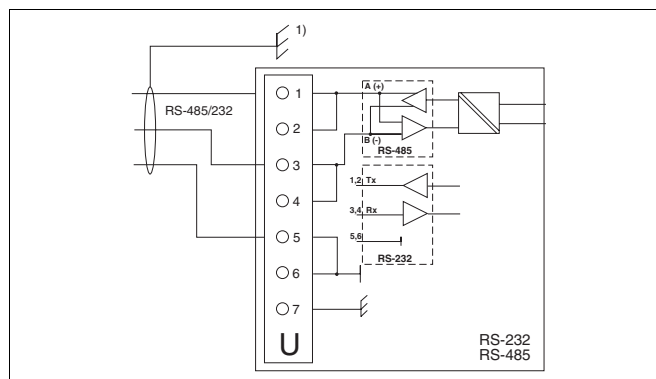


Interface modules

Module RS 485 or RS 232

(can only be used in slot 2)

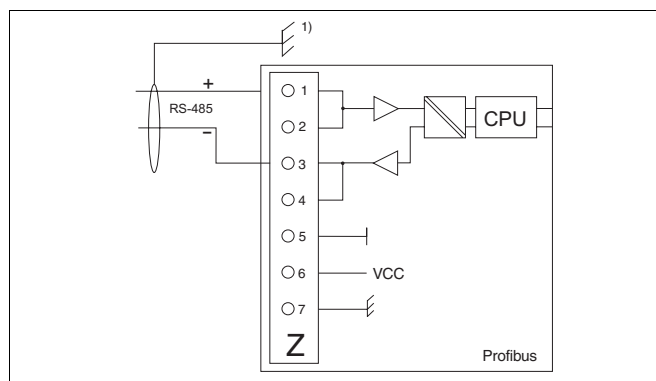
Interface module in accordance with RS 485 or RS 232 specification. Electrically isolated. Not dependent on protocol (the protocol used is configured in the controller. Standard protocol: MODBUS RTU. The RS 485 module also allows rapid, direct data exchange for lateral communication between up to 6 devices. Thus it is possible to expand the basis for inputs/outputs and also realise redundancy with to controllers in simple fashion. Transmission rate up to 187.5 kBaud.



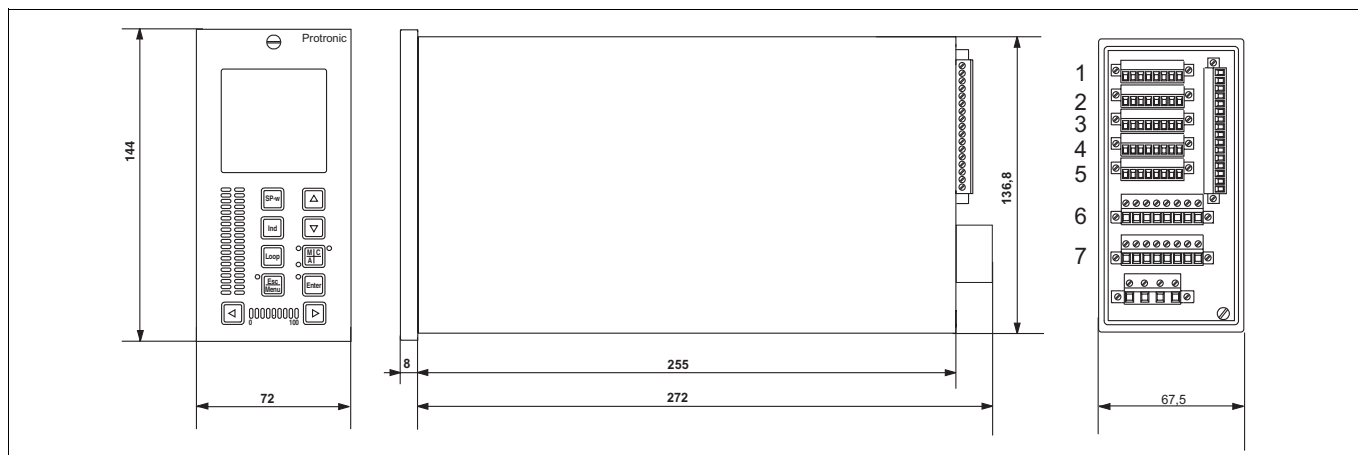
Module PROFIBUS-DP/DPV1 (Slave)

Can be used in all slots 1...7. Module with the full functional capabilities of DIN 19245, parts 1 to 4. Maximum 1 module can be used in the device. Transmission rate up to 1.5 MBaud.

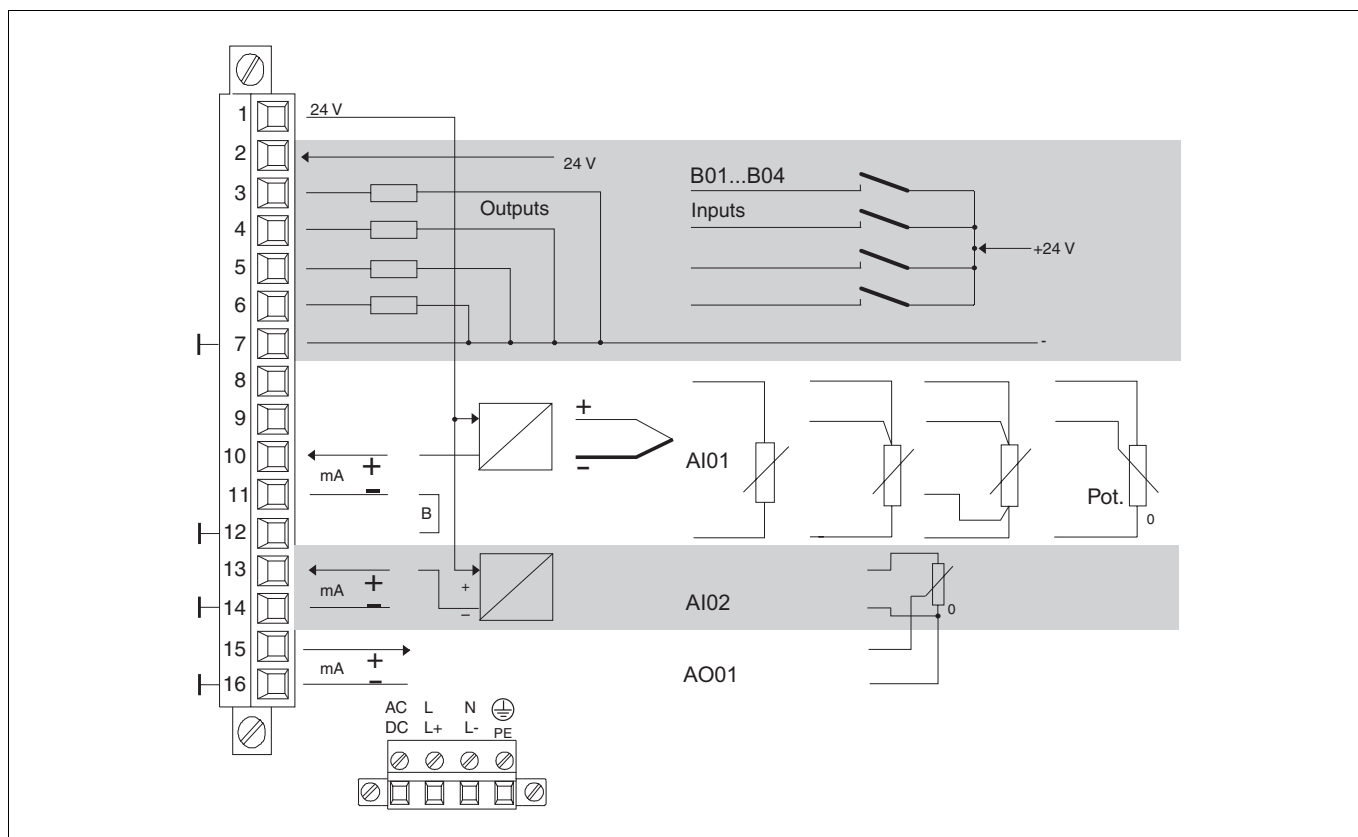
Bus terminating adapter is possible as accessory, Catalog number 62619-0346488.



Dimensional drawings



Connection diagrams of basic models



Connection diagram

AI01	Universal input
AI02	Additional current input
B01...B04	Binary inputs or outputs, function configurable
AO01	Analog output 1 (20 mA)
24 V	Feed for 2-wire transmitter and/or binary inputs and outputs
B	Jumper only if transmitter feed from terminal 1 is used

Ex stock versions

	Catalog No.		
Standard model P500, P550 without modules, without memory card pre-configured as single-channel continuous controller			
List configuration:			
P500 (Protronic 500) 115-230 V AC	V62615A-1101110		
24 V UC	V62615A-1401110		
P550 (Protronic 550) 115-230 V AC	V62615A-2101110		
24 V UC	V62615A-2401110		
Free configuration:			
P500 (Protronic 500) 115-230 V AC	V62615A-1111110		
24 V UC	V62615A-1411110		
P550 (Protronic 550) 115-230 V AC	V62615A-2111110		
24 V UC	V62615A-2411110		

From these basic models, by configuration and, as appropriate, installation of modules, all functions can be realized (for units with memory card see page 9).

The freely configurable units can be functionally expanded specific to customer requirements with the configuration program IBIS-R. The functions and functional modules available in the configuration program are based on Freelance 2000, and comply with IEC 1131-3.

Ordering information

	Catalog No.	Code		
Standard model without modules pre-configured as single-channel continuous controller	V62615A-			
Model				
P500 (Protronic 500)	1			
P550 (Protronic 550)	2			
Power supply				
115-230 V AC	1			
24 V UC	4			
Freely configurable				
without (only list configuration possible)	0			
with	1			
Front colours				
Grey, RAL 7032 with keys in yellow, green and grey		0		
Light grey, RAL 9002 with blue-white keys		1		
Modul(s) installed in item ... of the current order		300		
entered at position of current order		301		

Special features

	Code		
Input 2 (AE02) for 0/2...10 V instead of 0/4...20 mA	310		
Express handling for non-stock orders (controllers equipped with modules) within 3 workdays)	400		
Approvals			
with approval to DIN 3440	780		
with approval VdTÜV, TRD water level	775		
Instrument without display unit			
for wall mounting on DIN rail			
Operating Manual¹⁾			
German	Z2D		
English	Z2E		
French	Z2F		

¹⁾ 1 copy in German included in the basic supply; no specification required; extra Operating Manuals must be paid (please specify number)

Documentation on the configuration is in German,
other languages on request!

Ordering information

Modules (add-on)

When fitting or planning the module equipment of the controller, it is necessary to ensure that the sum of the individual module power parameters does not exceed 220. The project verification of the process controller or the hardware editor in IBIS-R monitors the power limit and prevents an overload.

Accessories

Part	Designation	Catalog No.		
GSD	Device master data file for PROFIBUS DP, diskette	62695-3601109		
Bus terminating adapter PROFIBUS DP		62619-0346488		

Type of modules	Designation	Mod. power para.	Code	available slots								Catalog No.		
				1	2	3	4	5	6	7				
Inputs														
AE4_mV	4fold thermocouple	0	E	x	x	x	x	x	x	x	62619-0346280			
AE2_mA/mV_TR	2fold thermocouple or mA with electrical isolation	0	B	x	x	x	x	x	x	x	62619-0346250			
AE4_PT_2L	4fold Pt100 in 2-wire circuit	0	F	x	x	x	x	x	x	x	62619-0346255			
AE2_PT_3/4L	2fold Pt100 in 3/4-wire circuit	0	G	x	x	x	x	x	x	x	62619-0346281			
AE4_F ³⁾	4fold frequency input	50	H	x	x	x	x	x	x	x	62619-0346444			
AE4_mA_MUS	4fold 0/4...20 mA / 0/2...10 V with transmitter feed	84	C	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	62619-0346441			
AE4_mA	4fold 0/4...20 mA with electrical isolation	0	A	x	x	x	x	x	x	x	62619-0346254			
Binary inputs/outputs														
BEA6_BIN	6fold binary inputs/outputs	0	M	x	x	x	x	x	x	x	62619-0346282			
Real time clock														
BEA4_RTC-B ²⁾⁴⁾	Real time clock with battery 4fold binary input/output	0	L	x	x	x	x	x	x	x	62619-0318634			
BEA4_RTC-C ²⁾⁴⁾	Real time clock with capacit. 4fold binary input/output	0	L	x	x	x	x	x	x	x	62619-0318635			
Outputs														
AA3_mA	3fold 0/4...20 mA	73	N	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	62619-0346252			
AA3_V	3fold 0/2...10 V	3	P	x	x	x	x	x	x	x	62619-0346253			
BA4_REL	4fold relays	27	T						x	x	62619-0346263			
Interface														
RS 485	RS 485, not dependent on protocol, bus compatible baud rate up to 187500 bd.	0	U		x						62619-0346257			
RS 232	RS 232, not dependent on protocol, not bus compatible	0	Y		x						62619-0346456			
PROFIBUS ²⁾³⁾	PROFIBUS DP/DPV1 (Slave)	80	Z	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	62619-0346470			
Code-No. for alle modules:														
For subsequent orders of ready-fitted devices, it may be sensible to fit the modules in the works.														
In such cases, the Catalog No. must be supplemented as follows:														
Installed in item ... of the current order (state position and item)														
												Code-Nr. 300		

¹⁾ Pay attention to the sum of power parameters (≤ 220)

²⁾ Maximum 1 module can be used in the device

³⁾ can only be used with devices from firmware version 01.190 (DPV1 from 01.200)

⁴⁾ can only be used with devices from firmware version 01.200

Ordering information

	Catalog No.									Code		
Configuration	V62675A-			0	0	0	0	0	0			
Customer-specific configuration as separate item (please enclose task definition in clear text)												
Configuration												
List configuration		1										
Free configuration (price according to time and expense)		2										
Adopted from previous order (see Code No. 302)		3										
Delivery												
Stored in unit (see Code No. 301)		1										
Disk 3,5"		2										
Memory card		3										
by E-Mail		4										
Configuration												
Entered at position of current order (clear text)										301		
Adopted from order number and position of previous order (clear text)										302		

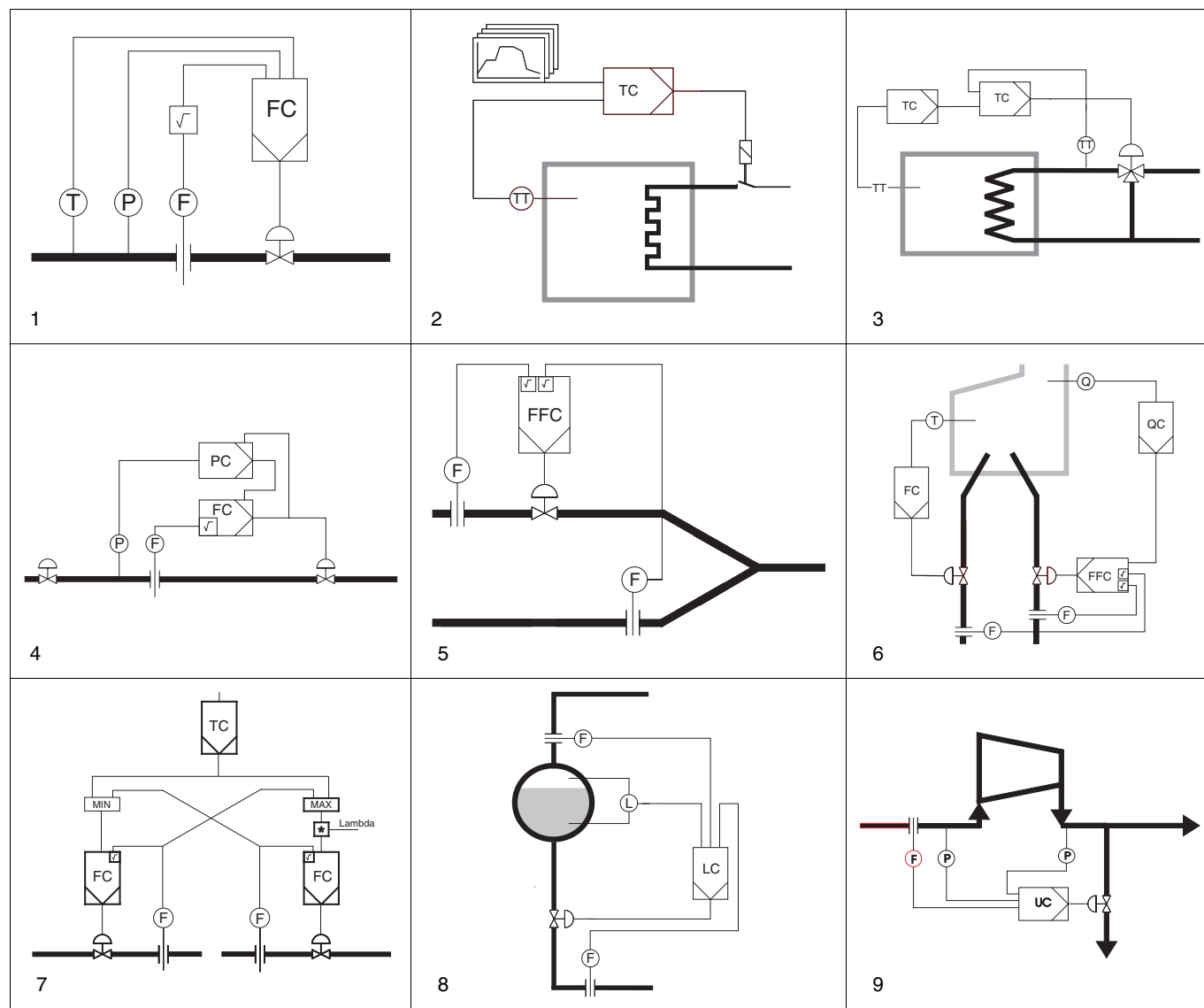
Documentation on the configuration is in German (1 copy is provided);
other languages on request!

	Catalog No.	Code		
Special features				
Accessories				
GSD Device master data file for PROFIBUS DP, diskette	62695-3601109			
Bus terminating adapter PROFIBUS DP	62619-0346488			
Memory card	61619-0745753			
Confi IC Retrofit module for free configuration	62619-0346461			
Display unit Protronic 550	62619-0762218			
Mounting kit for remote display	62608-0337860			
Passive display unit (dummy)	62608-0337859			
Spare parts				
CPU circuit board with backplane	62608-0346260			
Power supply 230 V AC	62608-0346474			
Power supply 24 V UC	62608-0346475			
Display unit P550 (Protronic 550)	62619-0762218			
(Grey, RAL 7032, with keys in green, yellow and grey)				
Display unit P550 (Protronic 550)	62608-0318655V			
(Light grey, RAL 9002, with keys in blue-white)				
Display unit P100, P500 (Protronic 100, 500)	62619-0762219			
(Grey, RAL 7032, with keys in green, yellow and grey) ¹⁾				
Display unit P100, P500 (Protronic 100, 500)	62608-0318658V			
(Light grey, RAL 9002, with keys in blue-white) ¹⁾				
Case	62608-0346285V			
EPROM set	62608-0346437			
EPROM mounting tool	62608-0967978			
(Further spare parts on request)				

¹⁾ Shall only be used for controllers with firmware 1.206 or later.

If the controller has a older firmware it must be upgraded to the actual firmware.

Applications



- 1 Fixed value control, e.g. flow control, optionally with flow compensation
- 2 Program control with up to 10 programs
- 3 Cascade control
- 4 Override control
- 5 Ratio control
- 6 Air/fuel control
- 7 Load control
- 8 Drum water level 3 element control
- 9 Anti surge control, usually requires additional configurations

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3KXC220500R1001

10/62-6;15-EN Rev. B 01.2011