

# 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<sub>ss</sub>

#### 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 °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  $\Omega$  line resistance, Line balancing by software

#### 3-wire circuit

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

#### 4-wire circuit

sensor short-circuit and break monitoring with configurable reaction

#### used for resistance teletransmitter (potentiometer)

#### Measuring ranges

75...200  $\Omega$ ; 750...2000  $\Omega$

#### 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  $\Omega$ , short-circuit and open-circuit proof

#### Control range

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

#### Load-dependency

0.1 %/100  $\Omega$

#### 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-EPROM; 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<sub>SS</sub>  
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<sub>Nenn</sub>

### 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 mm<sup>2</sup>, coded

#### Power supply

2.5 mm<sup>2</sup>

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

≤ 0.01 % for 20 mA

### Permissible common-mode voltage

≤ ± 4 V against device ground

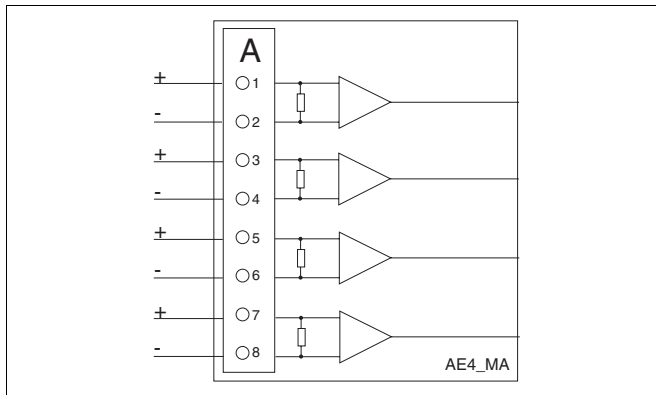
### Permissible differential-mode voltage

50 mV<sub>SS</sub>

### Destruction proof

Input current < 50 mA

Voltage between input and ground ± 50 V



**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 MΩ

**Permissible common-mode voltage:** ≤ ± 4 V against device ground

**Permissible differential-mode voltage:** 50 mV<sub>SS</sub>

### Destruction proof

Voltage at one input ± 10 V

Voltage between input and ground ± 50 V

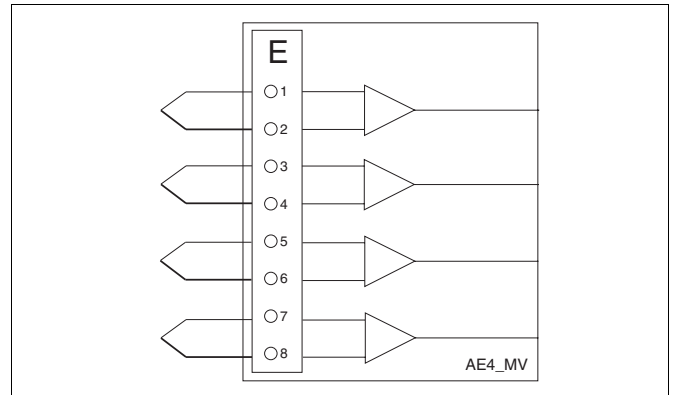
### Break monitoring

configurable reaction

### Reference junction compensation

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

Linearization configurable like AI01



## Module 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

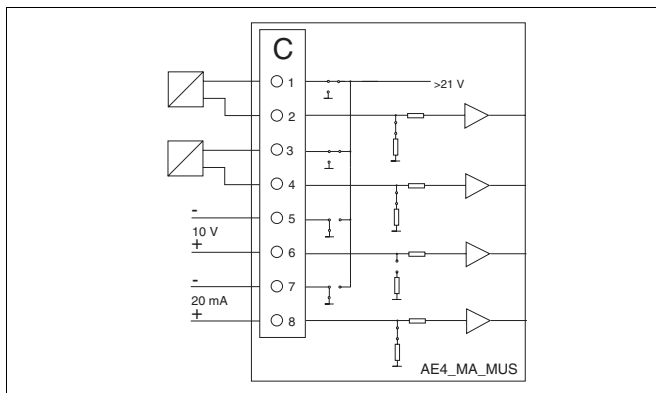
### Input resistance at

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

**Transmitter feed:** 20 V, 82 mA

Other data as module 4\_MA

Example of an input configuration



## 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

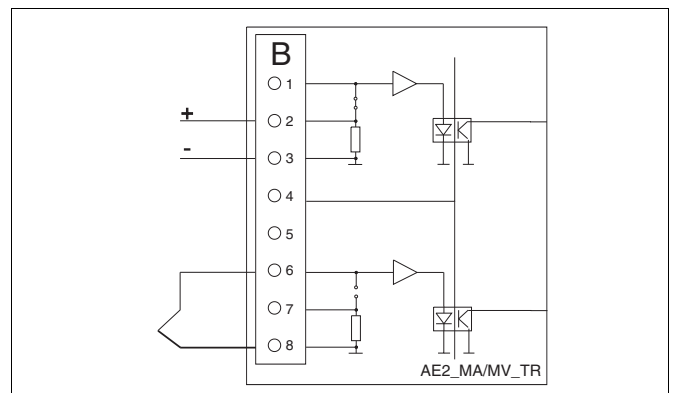
20 mA: 25 Ω; -10...80 mV: approx. 5 MΩ

### 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<sub>ss</sub>

**Signal resolution**

≤ 0.01 % for 400 Ω

**Measuring current**

≤ 1.5 mA

**Measuring range configurable**

-200.0...+200.0 °C

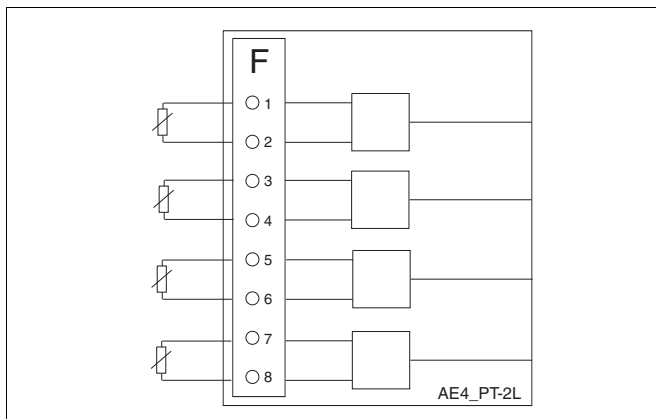
0.0...+450.0 °C

-200.0...+800.0 °C

Line balancing by software

**Sensor break and short-circuit monitoring**

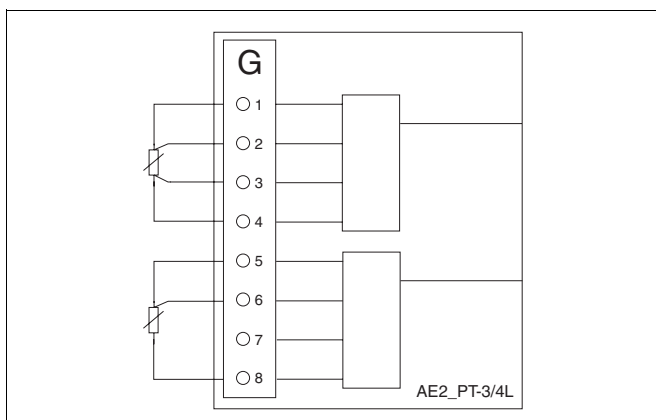
configurable reaction



**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**

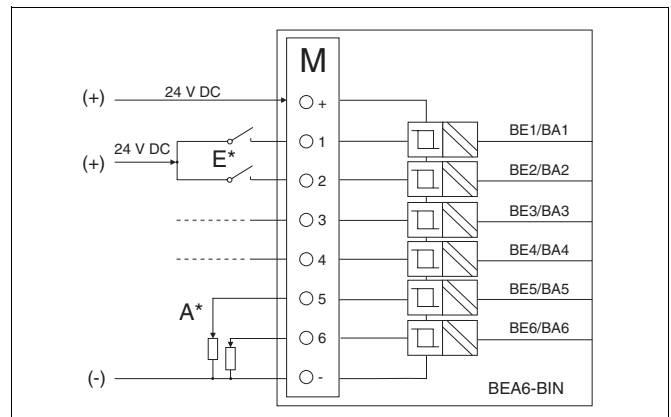
< 0.5 mA

**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**

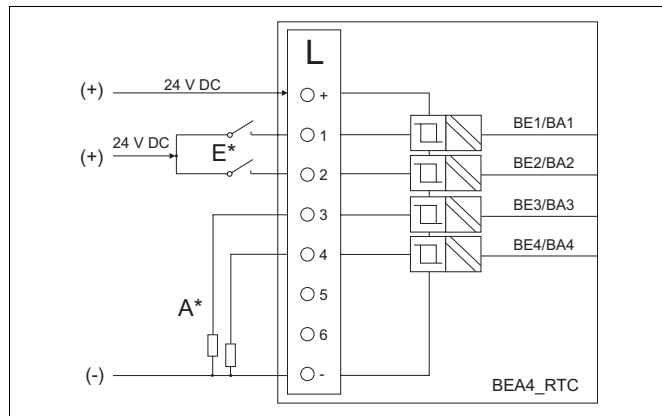
Real time clock with date, weekday and time

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**

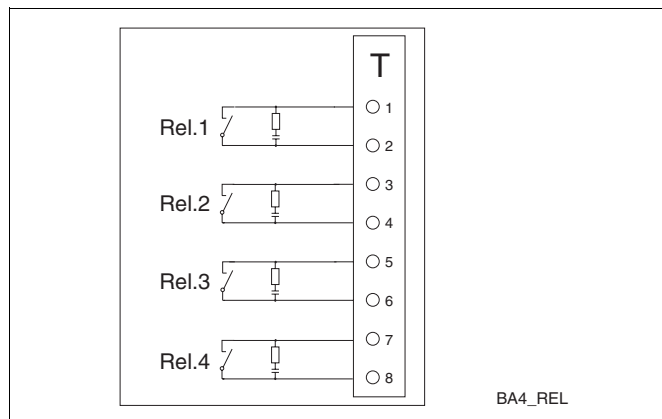
0.022 µF + 100 Ω

**For max. 250 V**

max. 1 A at cosφ = 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 µs

**Absolute incremental angle (1 input)**

Range: 0...20.000 impulses  
min. impulse length: 50 µs

**Types of input signals:**

**Max. 2 Namur inputs according to DIN 19234**

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

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

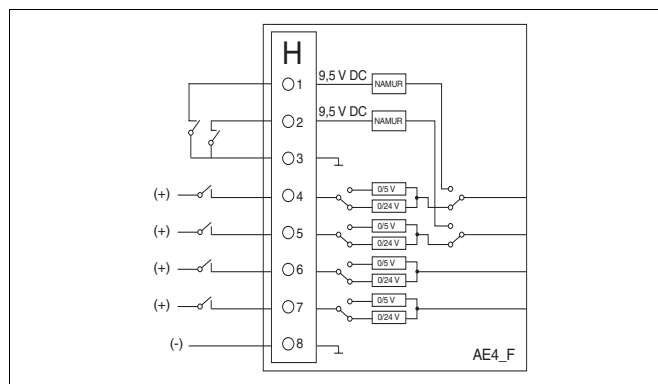
Input resistance	$R_E > 6 \text{ k}\Omega$
Signal range	$L = -3...5 \text{ V/H} = 13...20.2 \text{ V}$

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

Input resistance	$R_E > 6 \text{ k}\Omega$
Signal range	$L = 0...0.8 \text{ V/H} = 3.5...24 \text{ V}$

**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

≤ 0.02 % for 20 mA

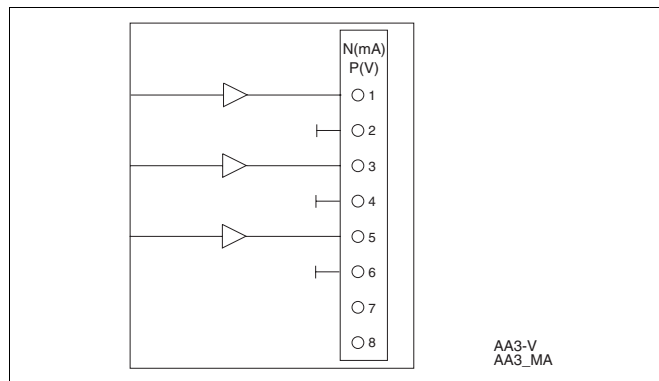
#### Load dependency

0.1 %/100 Ω

Output monitoring, reaction configurable

### Module AA3\_V

Triple voltage output 0/2...10 V ≥ 5 kΩ

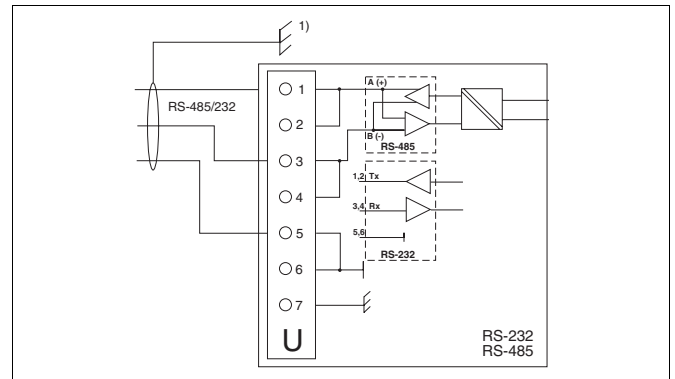


## Interface modules

### Module RS 485 or RS 232

(can only be used in slot 2)

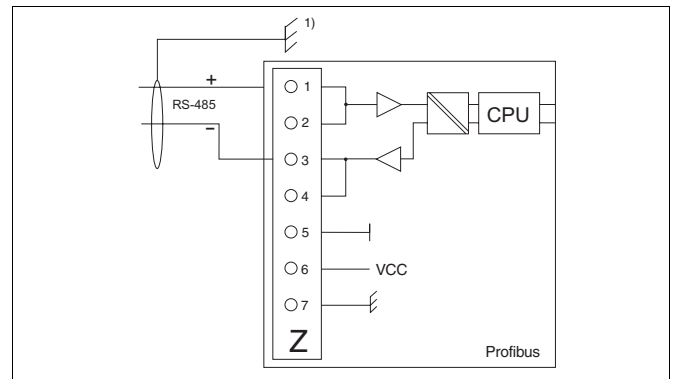
Interface module in accordance with RS 485 or RS 232 specification. Electrically isolated. Not dependent on protocol (the protocol used is configured in the controller. Standard protocol: MODBUS RTU. The RS 485 module also allows rapid, direct data exchange for lateral communication between up to 6 devices. 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)

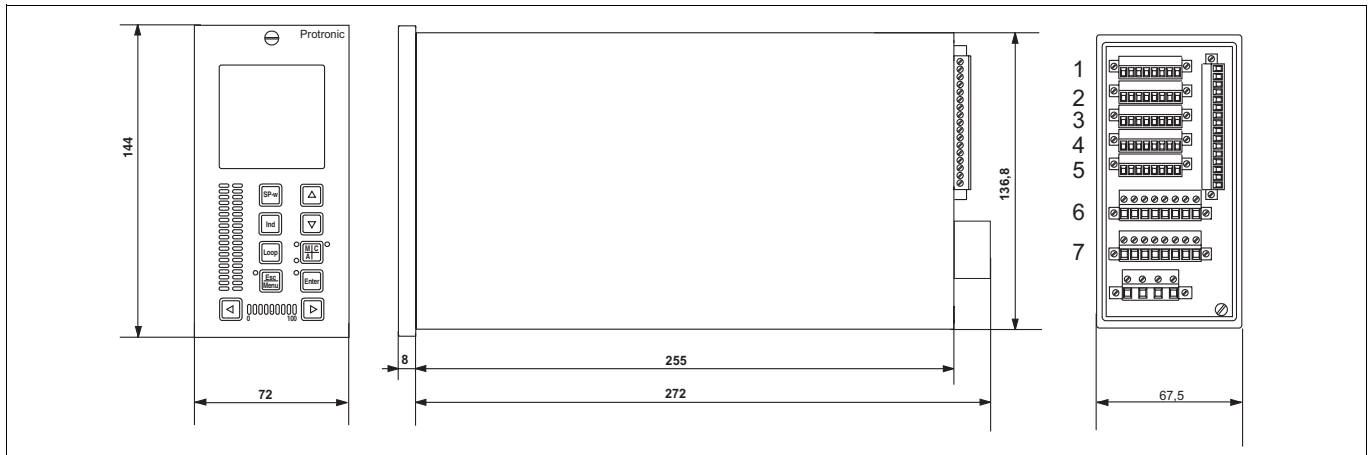
Can be used in all slots 1...7. Module with the full functional capabilities of DIN 19245, parts 1 to 4. Maximum 1 module can be used in the device. Transmission rate up to 1.5 MBaud.

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

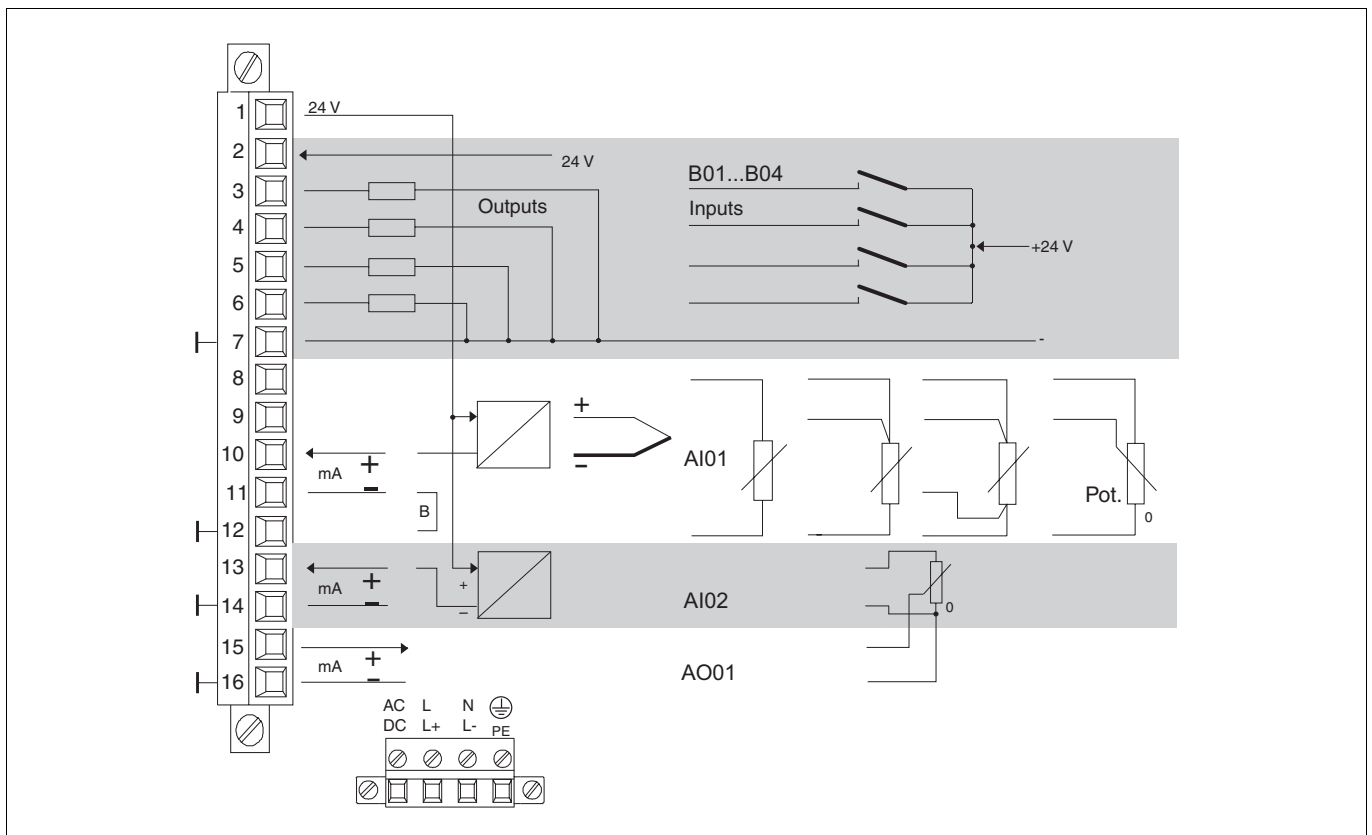




## Dimensional drawings



## 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.		
<b>Standard model P500, P550 without modules, without memory card</b> pre-configured as single-channel continuous controller			
<b>List configuration:</b>			
P500 (Protronic 500) 115-230 V AC 24 V UC	V62615A-1101110 V62615A-1401110		
P550 (Protronic 550) 115-230 V AC 24 V UC	V62615A-2101110 V62615A-2401110		
<b>Free configuration:</b>			
P500 (Protronic 500) 115-230 V AC 24 V UC	V62615A-1111110 V62615A-1411110		
P550 (Protronic 550) 115-230 V AC 24 V UC	V62615A-2111110 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			
<b>Standard model without modules</b> pre-configured as single-channel continuous controller	V62615A-				1	1	1				
<b>Model</b>											
P500 (Protronic 500)					1						
P550 (Protronic 550)					2						
<b>Power supply</b>											
115-230 V AC					1						
24 V UC					4						
<b>Freely configurable</b>											
without (only list configuration possible)					0						
with					1						
<b>Front colours</b>											
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	
<b>Approvals</b>			
with approval to DIN 3440		780	
with approval VdTÜV, TRD water level		775	
Instrument without display unit for wall mounting on DIN rail	Code No. on request		
<b>Operating Manual<sup>1)</sup></b>			
German		Z2D	
English		Z2E	
French		Z2F	

<sup>1)</sup> 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

<b>Modules (add-on)</b>			
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.			
<b>Accessories</b>			
<b>Part</b>	<b>Designation</b>	<b>Catalog No.</b>	
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				
<b>Inputs</b>														
AE4_mV	4fold thermocouple	0	E	x	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	x	62619-0346250		
AE4_PT_2L	4fold Pt100 in 2-wire circuit	0	F	x	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	x	62619-0346281		
AE4_F <sup>3)</sup>	4fold frequency input	50	H	x	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 <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	62619-0346441		
AE4_mA	4fold 0/4...20 mA with electrical isolation	0	A	x	x	x	x	x	x	x	x	62619-0346254		
<b>Binary inputs/outputs</b>														
BEA6_BIN	6fold binary inputs/outputs	0	M	x	x	x	x	x	x	x	x	62619-0346282		
<b>Real time clock</b>														
BEA4_RTC-B <sup>2)4)</sup>	Real time clock with battery 4fold binary input/output	0	L	x	x	x	x	x	x	x	x	62619-0318634		
BEA4_RTC-C <sup>2)4)</sup>	Real time clock with capac. 4fold binary input/output	0	L	x	x	x	x	x	x	x	x	62619-0318635		
<b>Outputs</b>														
AA3_mA	3fold 0/4...20 mA	73	N	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	62619-0346252		
AA3_V	3fold 0/2...10 V	3	P	x	x	x	x	x	x	x	x	62619-0346253		
BA4_REL	4fold relays	27	T							x	x	62619-0346263		
<b>Interface</b>														
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 <sup>2)3)</sup>	PROFIBUS DP/DPV1 (Slave)	80	Z	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	x <sup>1)</sup>	62619-0346470		
<b>Code-No. for alle modules:</b>														
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) <span style="float: right;">Code-Nr. 300</span>														

- <sup>1)</sup> Pay attention to the sum of power parameters ( $\leq 220$ )  
<sup>2)</sup> Maximum 1 module can be used in the device  
<sup>3)</sup> can only be used with devices from firmware version 01.190 (DPV1 from 01.200)  
<sup>4)</sup> can only be used with devices from firmware version 01.200

**Ordering information**

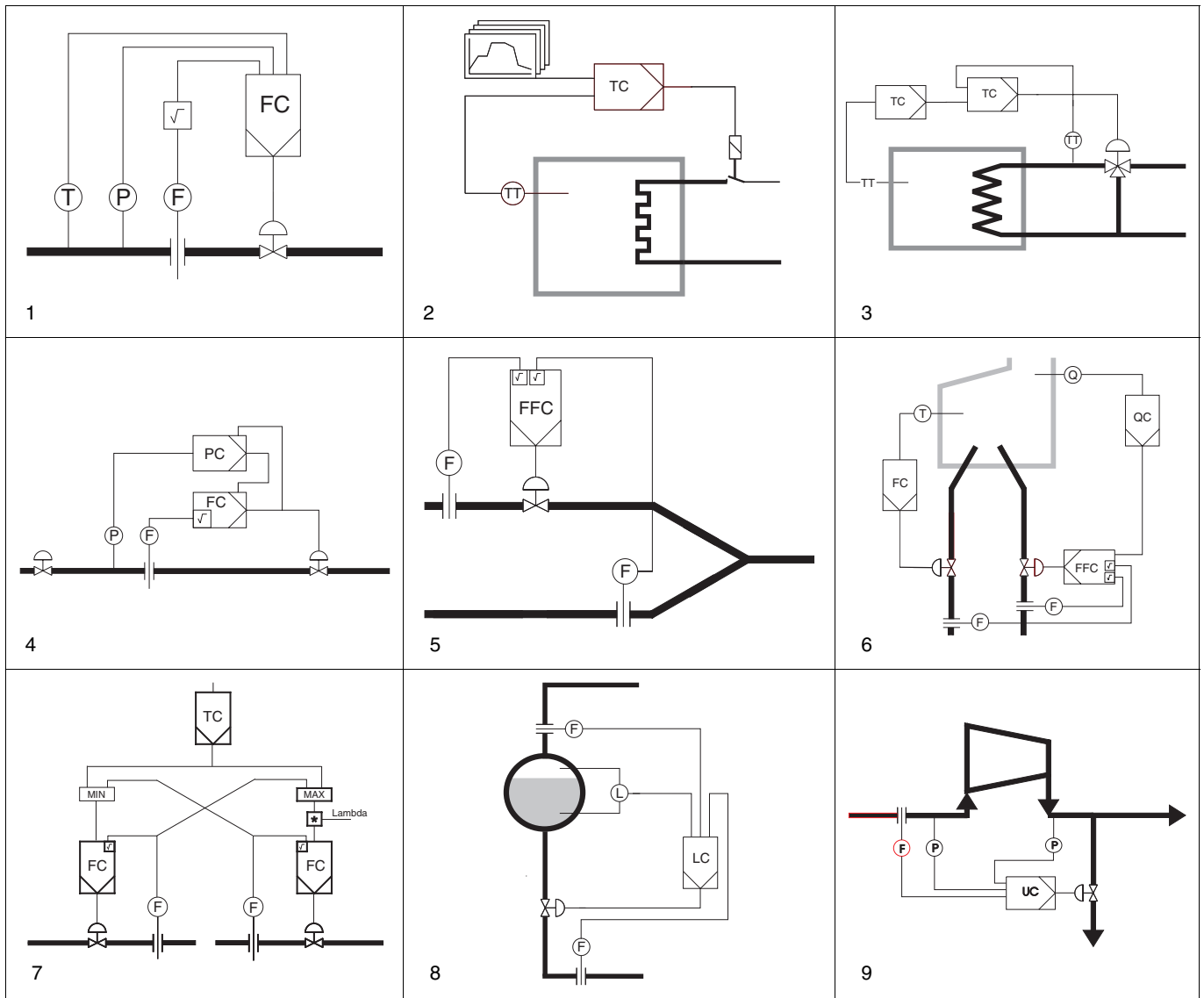
	Catalog No.	Code	
<b>Configuration</b>	<b>V62675A-</b>		
Customer-specific configuration as separate item (please enclose task definition in clear text)			
<b>Configuration</b>			
List configuration	1		
Free configuration (price according to time and expense)	2		
Adopted from previous order (see Code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

Special features	Catalog No.	Code	
<b>Accessories</b>			
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		
<b>Spare parts</b>			
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) (Grey, RAL 7032, with keys in green, yellow and grey)	62619-0762218		
Display unit P550 (Protronic 550) (Light grey, RAL 9002, with keys in blue-white)	62608-0318655V		
Display unit P100, P500 (Protronic 100, 500) (Grey, RAL 7032, with keys in green, yellow and grey) <sup>1)</sup>	62619-0762219		
Display unit P100, P500 (Protronic 100, 500) (Light grey, RAL 9002, with keys in blue-white) <sup>1)</sup>	62608-0318658V		
Case	62608-0346285V		
EPROM set	62608-0346437		
EPROM mounting tool	62608-0967978		
(Further spare parts on request)			

<sup>1)</sup> 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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