We control it!

Catalogue R&C Control units

ELECTRONIX
manufacturing & services

About us

Based upon more than 50 years of experience in electronics, production and services, we founded the ElectronXx GmbH in 2008. At our head office location Heiligenhaus in Germany we manufacture more than 250,000 pcs. of devices each year. We developed to a specialist in electronics, printed circuit board as- sembly and complete equipment assemblies. Our customers are famous clients as well as medium sized companies.

With the current catalogue we would like to present you the portfolio of our controller types.

You will find information on the order conditions in clear table form among all technical details. Due to our wide experience with constantly improved technologies of our devices we can help and advise you in all questi- ons concerning the various applications. We are loo- king forward to your inquiries.

History

- 1950 Start of construction at Heiligenhaus Germany
- 1951 Production start-up, Mechanical Measuring Devices
- 1958 Implementing of transistors
- 1959 Assembly of the first printed-circuit boards
- 1968 Incorporation of the AEG cooperation contract – Hartmann & Braun AG
- 1981 Hartmann & Braun AG becomes the manage – ment partnership of Mannesmann AG
- 1982 Assembly of the first surface-mounted devices
- 1996 Hartmann & Braun AG is integrated into Elsag Bailey AG
- 1999 acquisition by ABB
- 2000 The electronics manufacturing Service spins off and trades under the name ABB Electronics GmbH
- 2002 ABB Electronics GmbH becomes a member of the group ElectronicNetwork and initially trades under the name Elektronik Zentrum West GmbH and later at EN ElectronicNetwork Heiligenhaus GmbH
- 2008 buy-out of EN ElectronicNetwork Heiligenhaus GmbH from the group and startup of ElectronXx GmbH
- 2009 We move to a new location in Velbert

Single-loop process controller Digitrenic 100

Versatile single loop controller for all basic control functions

Panel cutout to
DIN 43 700: 92 mm x 92 mm,
installation depth:
136 mm (145 mm with plugs)

Order information								
Single-loop process controller	**ordering number**							
D100	**V61611A-**				**0**			
energy supply								
115-230 V AC		1						
24 V UC		2						
basic unit with								
1 Universal input			0					
2 Universal inputs with transmitter power supply			1					
module								
no additional module				0				
4-fold thermocouple				E				
2-fold thermocouple or mA with galvanic isolation				B				
4-fold Pt100 two-wire circuit				F				
2-fold Pt100 three/four-wire circuit				G				
4-fold frequency / pulse				H				
4-fold 0/4…20mA with Potential separation				A				
6-fold binary inputs and outputs				M				
3 fold 0/4-20 mA output 3 fold 0/2...10 V output				N				
4 way Relais				P				
RS-485 to Modbus RTU				T				
RS-232 to Modbus RTU				U				
Profibus DP/DPV1				Y				
				Z				
Default rule function								
continuous Controller						0		
Time proportioning ON / OFF control Heating-Off-Cooling-controller						1		
3-point stepping controller						2		
Alarm-Station						3		
Customized (order as separate item under V61675A)						4		
						5		
Certificates								
Standard							0	
Color design								
Black, RAL 9005 with gray buttons								3

Digitrenic 100

Technical characteristics

P,PI,PD or PID characteristic continuous ON/OFF, heat-off-cool and E - Drive valve output Basic unit with 1 universal input , 1 analog output, 2 binary inputs/outputs und 3 relays, optional 2nd universal input with transmitter supply Filtering, linearization and square-rooting of the input signal Ramp rate and high and low limitation for set point and output signal

Programmer with 10 programs, 15 segments, 1 analog and 4 digital profiles each 4 configurable alarms Preconfigured control strategies

Self-tuning of parameters and parameter control Lock for „parameter setting“ and „Configuration“ by password or digital input Spray-water protected front panel IP 65, brilliant LC display with color interchange (red/green) Plug-in module slot for analog and digital inputs/outputs extension or RS 232 interface, RS 485 (Modbus RTU) or PROFIBUS DP interface Serial interface for parameter setting and configuration as standard

Single-loop process controller Protrenic 100

Versatile controller for various requirements

Panel cutout to
DIN 43 700:
68 mm x 138 mm,
installation depth:
193 mm (210 mm with plugs

Order Information	ordering number								BA-Nr.
	V62611A-		1	1	0	0		0	
basic unit P100									
preconfigured as a single-channel continuous controller, interface retrofittable									
energy supply									
115-230 V AC, short version (210 mm)		5							
24 V UC, short version (210 mm)		6							
interface									
No communication module installed							0		
RS 485 modul for MODBUS RTU installed							U		
RS 232 modul for MODBUS RTU installed							Y		
PROFIBUS DP/DPV1 modul installed							Z		
Color design, front									
Gray, RAL 7032 with keys in green, yellow and gray								3	
additional disclosures									Z1x
Device configured according to position .... the current order									301

Protrenic 100

Technical characteristics

1-channel, fixed value, ratio controller
with P, PI, PD or PID characteristics
2-channel cascade or override controller
with 1 control output Dead Time algorithm (Smith predictor)
Spray-water protected front panel IP 65
Clear laid-out LCD with color change (red/green)
analog displays for process variable, set point and controller output 2 analog inputs, 1 analog output, 4 binary inputs/outputs
Universal input for temperature sensor

Filtering, linearization and square-rooting
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 connections

Analog or switching controller output (two-position controller, step controller, continuous controller, configurable without hardware modification) Self-setting of parameters and parameter control Access bar for 'Parameter setting' and 'Con- figuration' by password or digital output Seri- al interface for parameter setting and configuration as standard Bus capable RS 485 interfaces for Modbus or PROFIBUS for

Panel cutout to
DIN 43 700 :
92 mm x 92 mm,
Built-in depth : 191 mm
(200 mm with plugs)

Accessories
Configuration -IC
for free Configuration
V62619A-0346461

Order Information	ordering number								BA-Nr.
	V61617A-			0	0	0	0		
Basic unit D700 without modules configured as a single-channel, continuous controller, backplane installed									
energy supply									
115-230 V AC	1								
24 V UC	2								
configurability									
configurable to list		1							
to list and freely configurable		2							
Color design, front									
Black, RAL 9005 with gray buttons			3						
additional information									Z1x
Device configured according to position .... the current order									301
Input 2 with 0/2…10V instead 0/4...20mA									310

Digitrenic 700

Technical characteristics

- 1...4-channel fixed-value, ratio, override and cascade controller with P, PI, PD or PID characteristics
- Dead Time algorithm (Smith predictor)
- Spray-water protected front panel IP 65
- Clearly laid-out LCD with color change (red/green)
- Basic unit with 2 analog inputs, 1 analog output, 2 binary inputs/outputs and 2 relays
- 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 Pre-configured input signal connection
- Analog or switching controller output
- Self-tuning of parameters and parameter control
- Access bar for , Parameter setting' and ,Configuration' by password or digital input
- Additional plug-in modules for analog and digital inputs and outputs
- Custom configuration with function block diagram or instruction list
- Serial interface for parameter setting and configuration as standard
- Bus capable RS 485 interface for Modbus or PROFIBUS for connection to high-level systems, optional
- Rapid lateral data exchange (187.5 kBaud) between up to 6 controllers via the interface module
- Data storage in Flash-EPROM

Order information	ordering number							BA-Nr.
	V62617A-	1			1	1	1		
Basic unit P700 without modules configured as a single-channel, continu-ous controller, backplane installed								
energy supply								
115-230 V AC		1						
24 V UC		4						
configurability								
configurable to list			0					
to list and freely configurable			1					
Color design, front								
Gray, RAL 7032 with keys in green, yellow and gray							3	
additional information								Z1x
Device configured according to position .... the current order								301
Input 2 with 0/2…10V instead 0/4...20mA								310

Panel cutout to
DIN 43 700 :
68 mm x 138 mm,
installation depth: 255 mm
(272 mm with plugs)

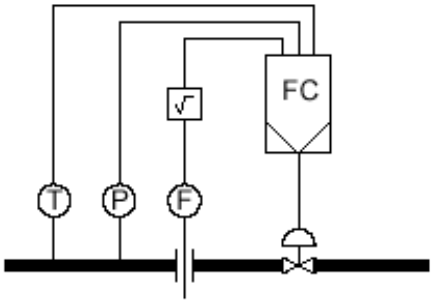
Accessories
Memory Card
V61619A-0745753
Configuration-IC
for free Configuration
V62619A-0346461

Protrenic 700

Technical characteristics

- 1...1...4-channel fixed-value, ratio, override and cascade controller with P, PI, PD or PID characteristic
- Dead Time algorithm (Smith predictor)
- Spray-water protected front panel IP 65
- Clearly laid-out LCD with analog displays for process variable, set point and controller output
- Color change (red/green) at P700
- Basic unit with 2 analog inputs, 1 analog output and 4 binary 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 Pre-
- configured input signal connection
- Analog or switching controller output
- Self-setting of parameters and parameter control
- Access bar 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 parameter setting and configuration as standard
- Bus capable interface for lateral communication (RS485-
- LATCOM), optional
- Bus capable interface for MODBUS (RS485) or PROFIBUS

Fixed-value control

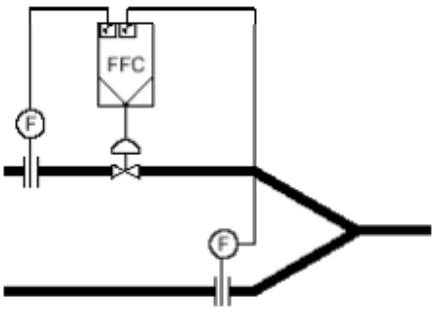


Applications:
Flow control, optional with condition correction

Customers:
Chemical industry, Power supply, Building of furnaces

Advantage Protrenic / Digitrenic
-Density correction of material gases
-Configuration via input of transducer ranges, no forms needed
-Correction for ideal and material gases

Ratio control

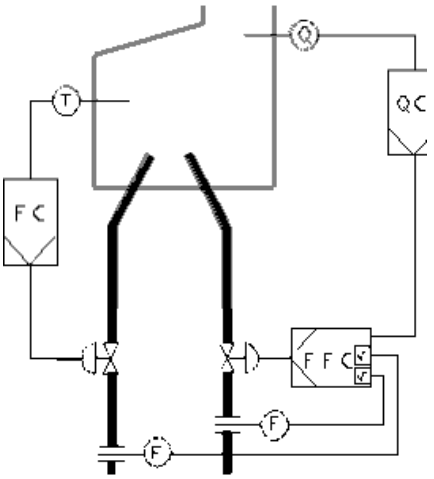


Applications:
Mixing
a) Flow F1 / F2
b) Flow F1 / (F1+ F2)
„Fat content in Quark“

Customers:
Chemical industry, food industry, waste water treatment

Advantage Protrenic / Digitrenic
Application b) as standard

Ratio control :λ-control



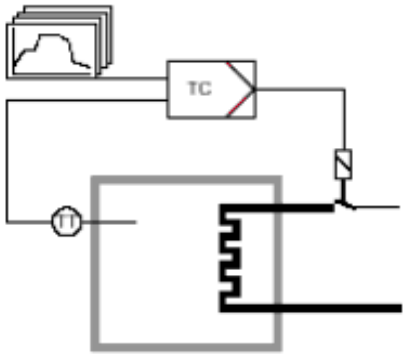
Applications:
Air or fuel regulation, Regulation of furnace atmosphere and burn process

Customers:
Building of furnace, Power supply, Steam generation, Metallurgy

Advantage Protrenic /Digitrenic:
Realization with only one controller

Examples of standard solutions

Programmer

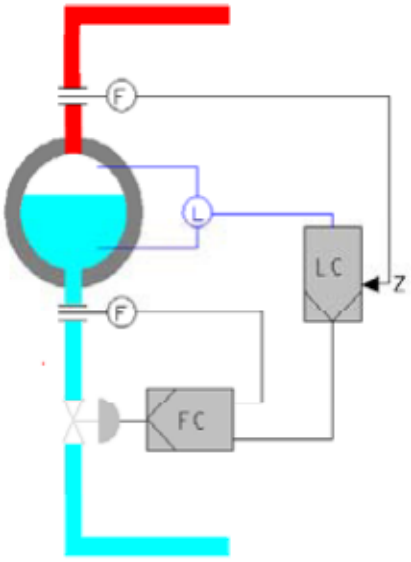


Application:
Set point profile, instead of fixed set points

Customers:
Climate and environment, automobile industry, building of furnace, Biotechnology

Advantage Protrenic / Digitrenic
10 programs with 15 segments selectable over the control keys

Drum water level control

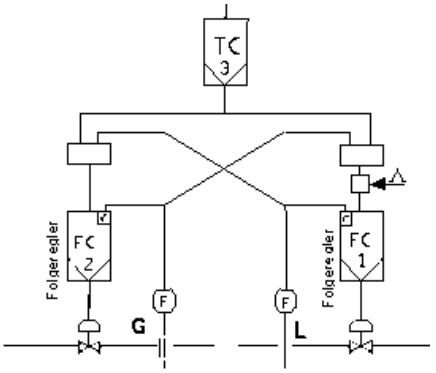


Applications:
Feed water regulation alternatively with condition correction

Customers:
Power supply, Steam boiler manufacturer

Advantage Protrenic / Digitrenic:
Realization with only one controller

Burn control (load control)



Applications:
Steam generation, Building of furnace

Customers:
Power supply, Chemical industry and others

Advantage Protrenic / Digitrenic:
Realization with only one controller

Further options

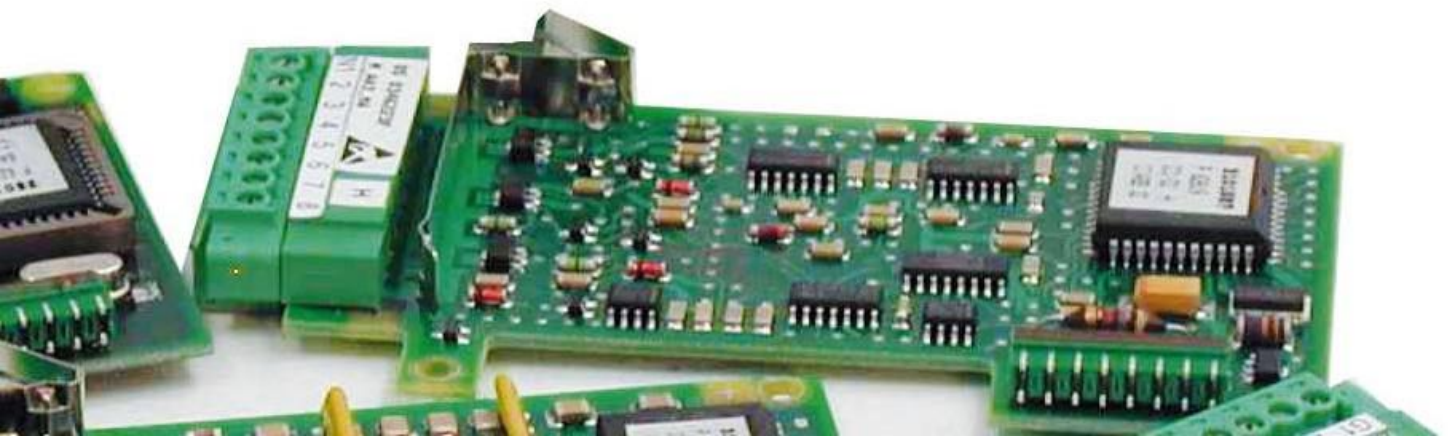
Two-position control
Heat-off-cool
Continuous control
3 point step control
Split range
Disturbance variable compensation
Backup control
Set point station
Hand station, Alarm station
Cascade control
Override
Ratio control with cascade
Pumping border automatic control

Order information	Ordering number								
accessories		inserted into							
		D100	D500	D700	P100	P500	P700	Performance characteristic variable	Code letter
Modules									
Inputs									
AE4_mV	346280	■	■	■		■	■	0	E
AE2_mA/mV_TR	346250	■	■	■		■	■	0	B
AE4_PT_2L	346255	■	■	■		■	■	0	F
AE2_PT_3/4L	346281	■	■	■		■	■	0	G
AE4_F	346444	■	■	■		■	■	50	H
AE4_mA_MUS	346441		■	■		■	■	84	C
AE4_mA	346254	■	■	■		■	■	0	A
binary inputs and outputs									
BEA6_BIN	346282	■	■	■		■	■	0	M
Real-time clock									
BEA4_RTC-B	318634		■	■		■	■	0	L
BEA4_RTC-C	318635		■	■		■	■	0	L
Outputs									
AA3_mA	346252	■	■	■		■	■	73	N
AA3_V	346253	■	■	■		■	■	3	P
BA4_REL	346263	■	■	■		■	■	27	T
interfaces									
RS 485	346257	■	■	■	■	■	■	0	U
RS 232	346456	■	■	■	■	■	■	0	Y
PROFIBUS DP/DPV1 (Slave)	346470	■	■	■	■	■	■	80	Z
RS 485-Latcom	9760244						■	0	
accessories									
GSD-file for PROFIBUS DP	3601109	■	■	■	■	■	■		
Bus termination adapters PROFIBUS DP	346488	■	■	■	■	■	■		
PC cable with adapter	346270	■	■	■	■	■	■		
Adapter without PC cable	346267	■	■	■	■	■	■		
Konfi-IC	346461		■			■	■		
Memory-Card	745753					■	■		
Mounting Kit remote control panel	337860					■	■		
Bus board	346840		■						

Application of the modules and accessory article

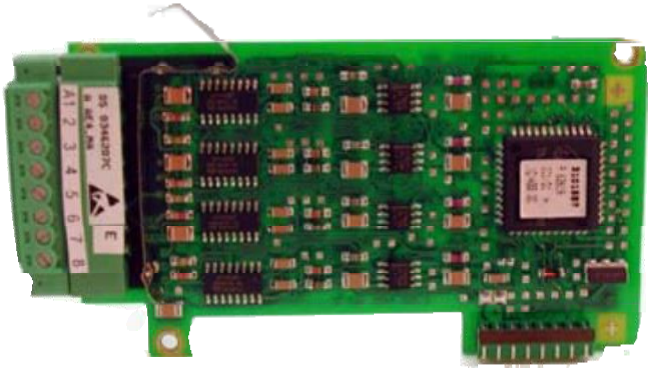
Order information	Ordering number							
accessories		D500/700 Platz 1	D500/700 Platz 2	D500/700 Platz 3	D500/700 Platz 4			
		P500/700 Platz 1	P500/700 Platz 2	P500/700 Platz 3	P500/700 Platz 4	P500/700 Platz 5	P500/700 Platz 6	P500/700 Platz 7
Modules								
Inputs								
AE4_mV	346280							
AE2_mA/mV_TR	346250							
AE4_PT_2L	346255							
AE2_PT_3/4L	346281							
AE4_F	346444							
AE4_mA_MUS	346441							
AE4_mA	346254							
binary inputs and outputs								
BEA6_BIN	346282							
Real-time clock								
BEA4_RTC-B	318634							
BEA4_RTC-C	318635							
Outputs								
AA3_mA	346252							
AA3_V	346253							
BA4_REL	346263	D500/700					P500/700	P500/700
interfaces								
RS 485	346257		P500/700		D500/700			
RS 232	346456		P500/700		D500/700			
PROFIBUS DP/DPV1 (Slave)	346470							

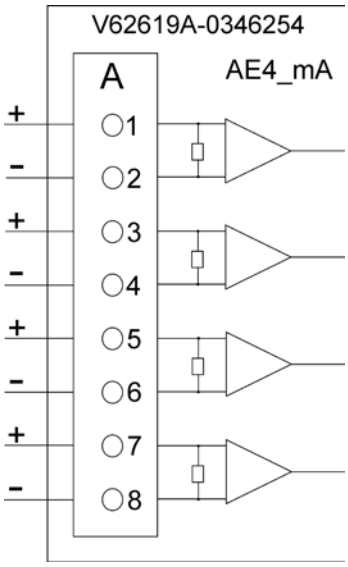
Possible slot assignment



Extension modules

Input module: electric current
V62619A-0346254

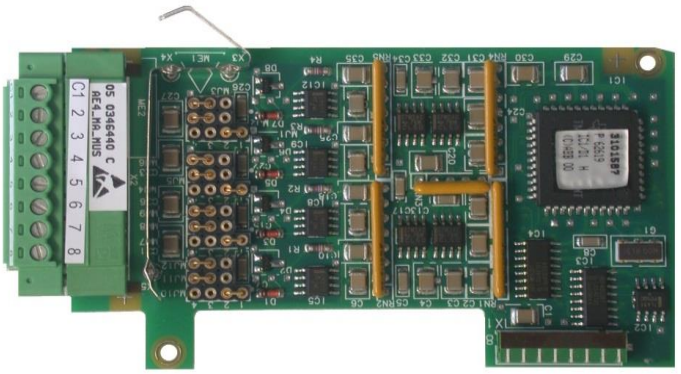


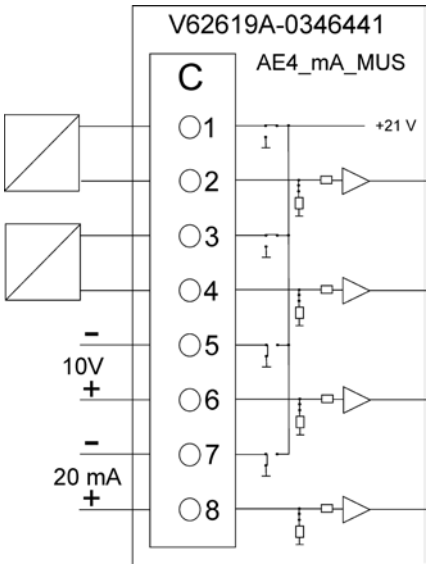


Input module V62619A-0346254

Module AE4_MA for standard signals
4 inputs
0/4...20 mA with electronically isolated input resistant
approx. 50 Ω
Signal resolution
< 0,01 % for 20 mA
Permissible Common - mode voltage
< ± 4 V against device ground
Permissible divertible-mode voltage Uss (50 Hz): 50 mV
Destruction proof
Input current < 50 mA
Voltage between input and ground ± 50 V

Input module: current/voltage
V62619A-0346441

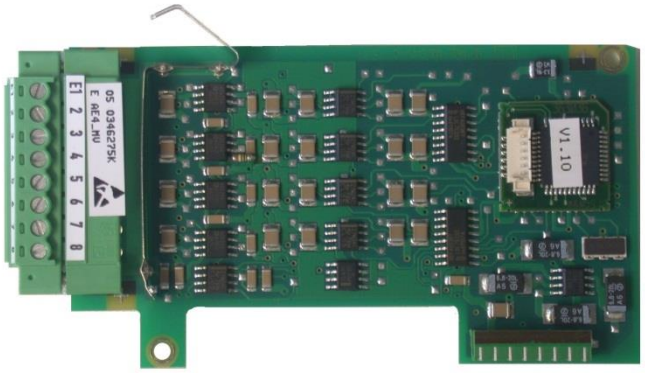


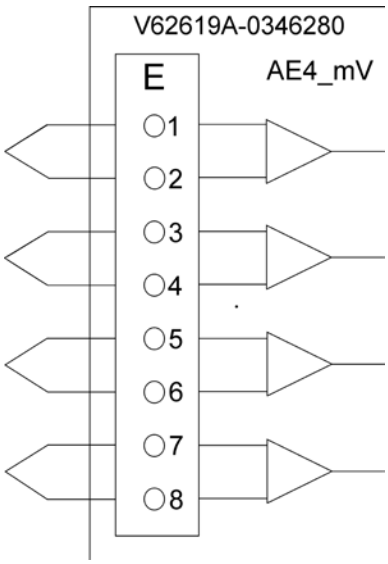


Input module V62619A-0346441

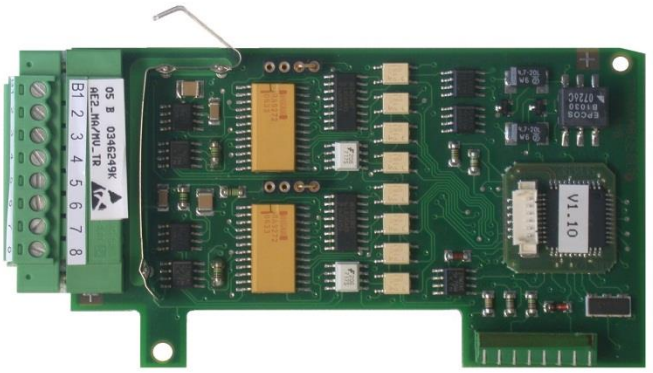
Module AE4_MA-MUS
for mA or V signals, integrated transmitter feed (pay attention to maximum power consumption, see page 10)
4 inputs
0/4...20 mA, separate changeable to 0/2...10 V
input resistant at
mA input: approx. 50 Ω
10V input: 20 kΩ
transmitter feed: 20 V, 82 mA
other data see Module 4_MA

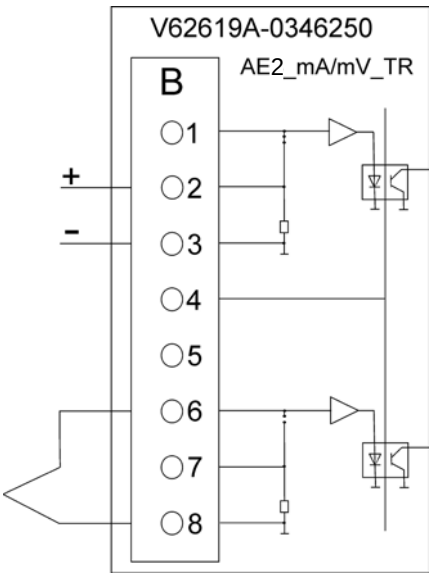
Input module mV/thermocouple
V62619A-0346280





Input module current/thermocouple
V62619A-0346250





Input module V62619A-0346280

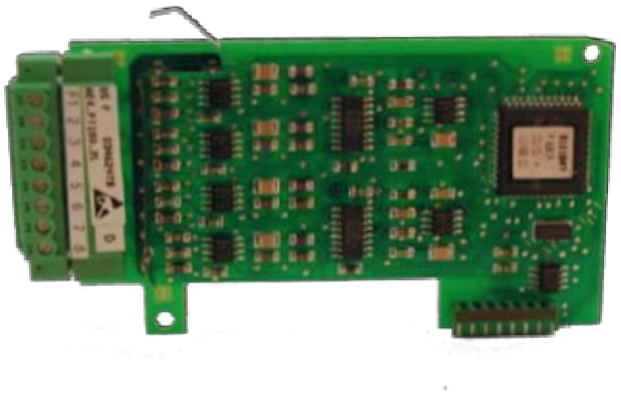
Module 4_MV for thermocouples
4 inputs
-10...80 mV, with electronically isolation
Signal resolution: 20.000 for -10...80 mV
Input resistance: approx. 5 MΩ
Permissible Common-mode voltage:
< ± 4 V against device ground
Permissible differential-mode voltage: Uss (50 Hz):
50 mV Destruction proof
Voltage 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 AE01

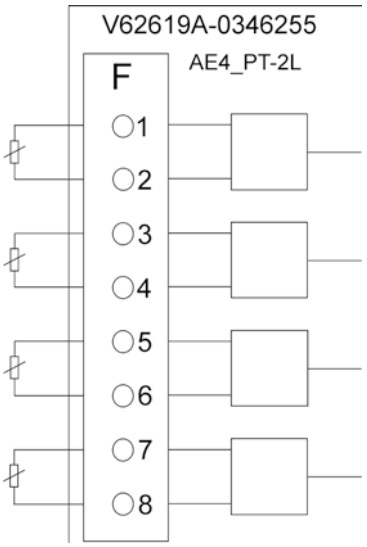
Input module V62619A-0346250

1Module AE2_MA /MV-TR for mA signals or ther-mocouples, with Galvanical isolation
2 inputs with Galvanical 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 an against grounded conductor:
Test voltage: 500 V AC
Continuous operation: 45 V AC
Technical data as modules 4_MV or 4_MA

Extension modules

Input module: Pt100
V62619A-0346255

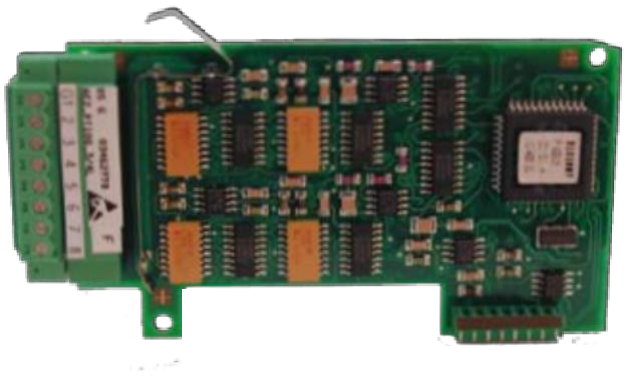


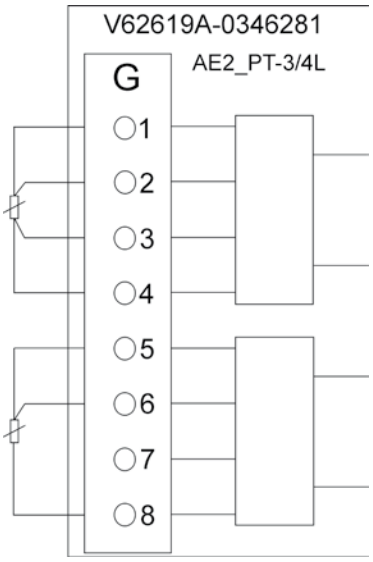


Input module Pt100 V62619A-0346255

Module AE4_PT_2L for RTD 2-wires
4 inputs for Pt100 in 2-wires circuit without galvanical isolation
Range: 0...400 Ω
Line resistance: 0...125 Ω per line
Permissible differntial-mode voltage Uss (50 Hz): 100 mV 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

Input module: Pt100
V62619A-0346281

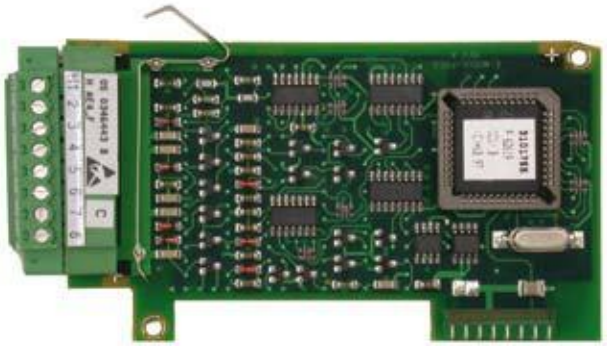


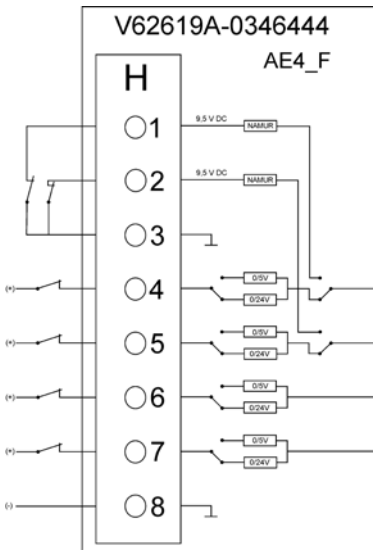


Input module Pt100 V62619A-0346281

Module AE2_PT-3/4L for RTD 3_/4_wires
2 inputs for Pt100 in 3- or 4-wires 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

Input module: Frequency
V62619A-0346444





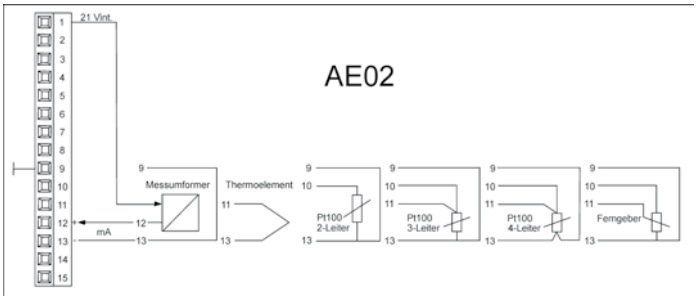
range: 0...20.000 Impulse
min. Impulsbreite /Pause: 50 µs max. 1kHz
Types of input signals:
Max. 2 Namur inputs according to DIN 19 234
Open circuit voltage U = 9,5 V
internal resistance R = 1 k Ω
Signal range L = 0...1,2 mA /H = 2,1...4,0 mA
Max. 4 binary inputs according to DIN 19 240 (0/24 V DC)
Input resistance R E > 6 k Ω
Signal range L = -3...5 V /H = 13...20,2 V
Max. 4 binary 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 %

Input module Frequenz
V62619A-0346344

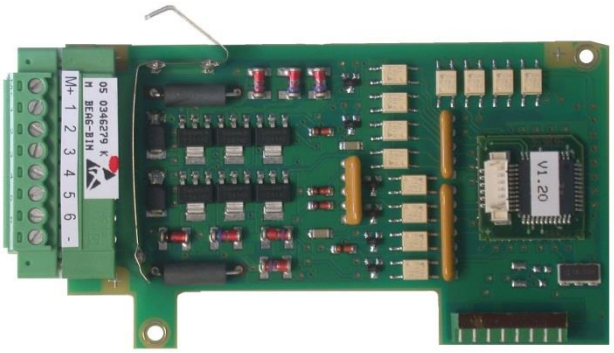
Module AE4_F
Range: 0...20.000 impulses
4 inputs for:
min. impulse length: 50 µs
Frequency (1/4-inputs)
Range 1 input 0...20 kHz
Range 4 inputs 0...10 kHz
Signal resolution 1 Hz
Period (1-4 inputs)
Range 0...20 s
Signal resolution 1 ms
Impulses (1-4 inputs) / incremental angle (2 inputs)

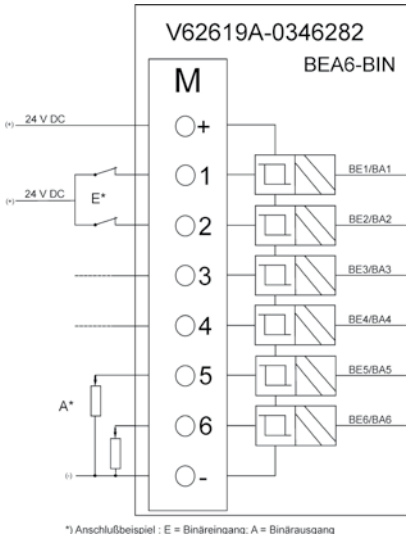
Range: 0...20.000 impulses/cycle time
min. impulse length: 50 µs
Inkrementalgeber mit Nullpunktkorrektur (1-kanalig)

Extension for D100
V61619A-0346866V



Input Output Module: Binär 6x
V62619A-0346282





Extension for für D100
V61619A-0346866V

Analog input AE02 with transmitter feed for mA, Pt100, thermo-couples and potentiometer

Current input: 0/4...20 mA at 50 Ω ± 1%, linearization, square -rooting configurable Thermocouples types: J, E, K, L, U, R, S, T, B, D; Compensation internal or external (0, 20, 50 or 60°C), sensor break monitoring with configurable function
Pt100 : -200...+200°C/ ...800 °C , measuring current ≤ 1 mA , Line resistance adjustable

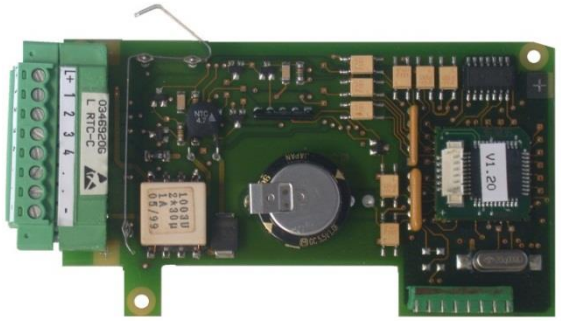
Potentiometer R150 / R1500:
150 Ω (75...200 Ω) or 1,5 kΩ (0,75...2 kΩ)
Transmitter supply: 20...25 V DC, 50 mA, short circuit proof

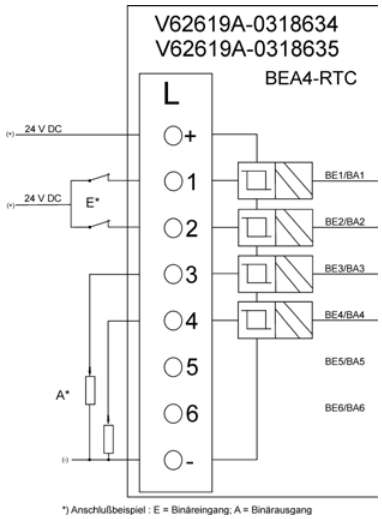
Module BEA6-BIN

6 binary inputs or outputs, Galvanical isolation

Function configurable as input or output, direct or reverse action

V62619A-0318634
Real time clock with battery
V62619A-0318635
or with Capacitor

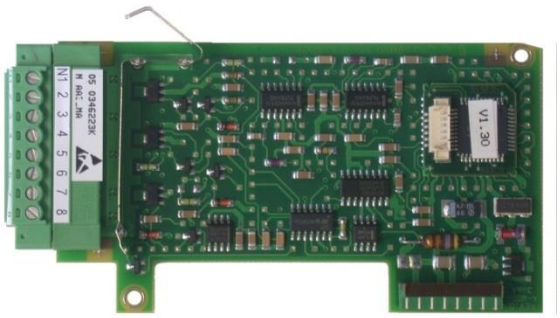


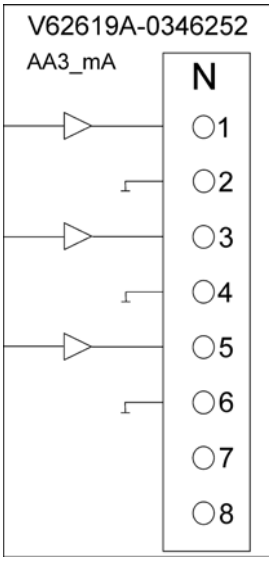


Input module real-time V62619A-0318634/0318635

Module BEA4_RTC
Real time clock with date, weekday, time
Day light saving time and leap year switching
Synchronization by digital input
Battery buffer or capacitor buffer (min. 72 h)
4 binary inputs/outputs, Galvanical isolated, function configurable as input or output (technical data see module BEA6-BIN)

Output module: current V62619A-0346252



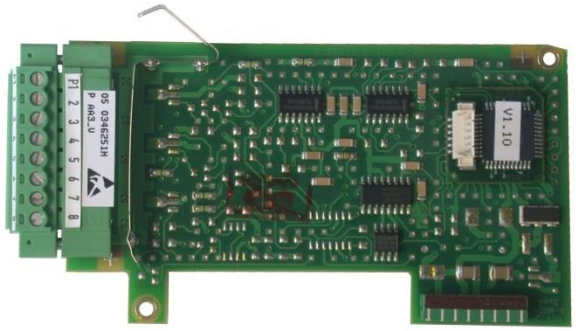


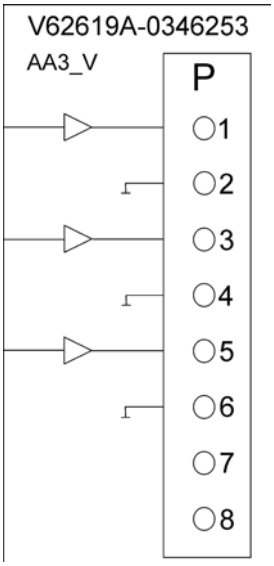
Output modul: current V62619A-0346252

Module AA3_MA
3-times current output
0/4...20 mA at 750 Ω
Signal resolution
<0,02 % for 20 mA
Load dependency
0,1 %/ 100 Ω
Output monitoring, function configurable

Extension modules

Output module: voltage
V62619A-0346253

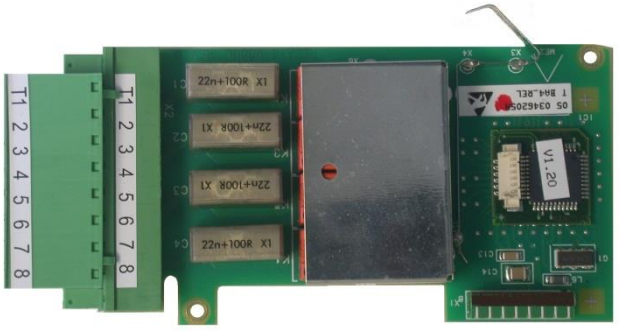


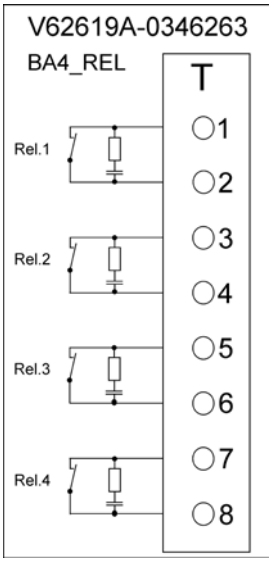


Output module voltage V62619A-0346253

Module AA3_V
Triple voltage output
0/2...10 V > 5 kΩ
Signal resolution
< 0,02 % for 10 V
Load dependency
0,1 %/ 100 Ω
Output monitoring
Reaction configurable

Output module: 4 x relays
V62619A-0346263

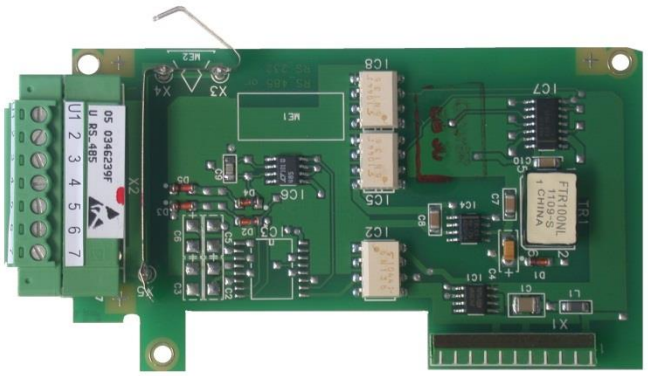


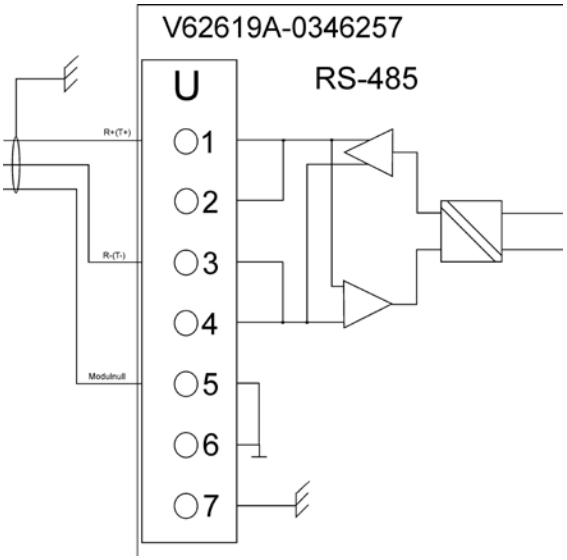


Output module Relays V62619A-0346263

Module BA4_REL
possible plug-in places see table on page 11
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 RS 485
V62619A-0346257

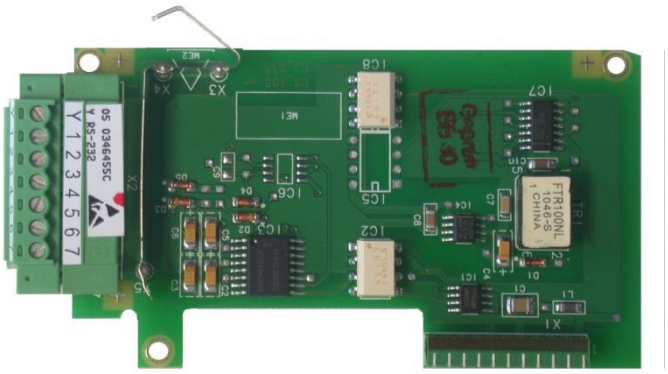


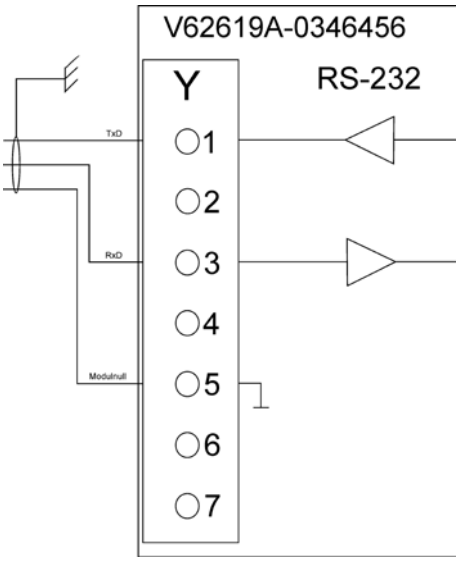


Module RS 485
V62619A-0346257

Possible plug-in places see table on page 11
Interface module in accordance with RS 485 specification. Electrically isolated. Not dependent on protocol (the protocol used is configured in the controller). Standard protocol: MODBUS RTU. The module RS 485 also allows rapid, direct data exchange for lateral communication (see RS485-Lat-com). Transmission rate by MODBUS RTU up to 38,4 kBaud, by Latcom up to 115,2 kBaud.

Module RS 232
V62619A-0346456



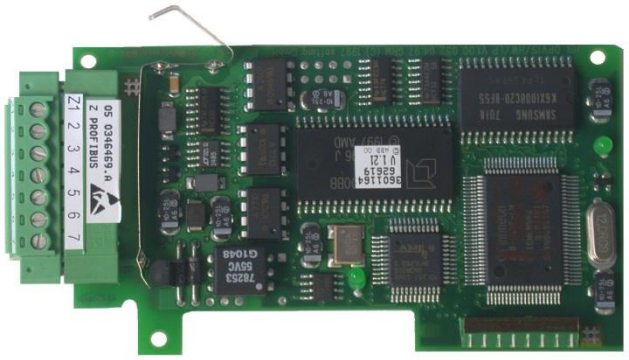


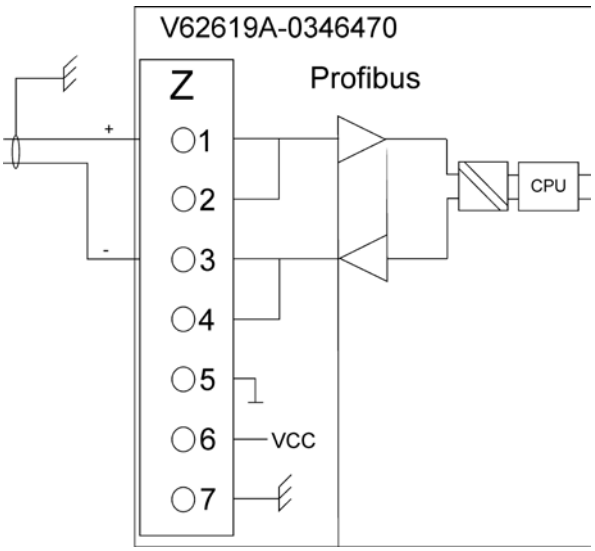
Module RS 232
V62619A-0346456

Possible plug-in places see table on page 11
Interface module in accordance with RS 232 specification. Electronically isolated. Not dependent on protocol (the protocol used is configured in the controller). Standard-protokoll: MODBUS RTU.

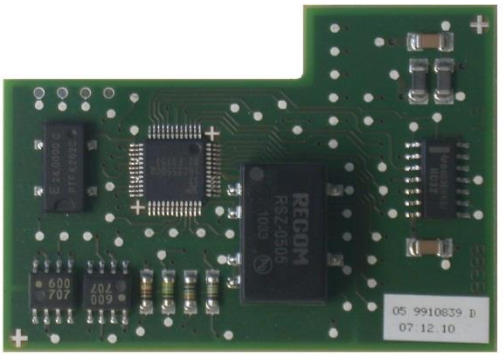
Extension modules

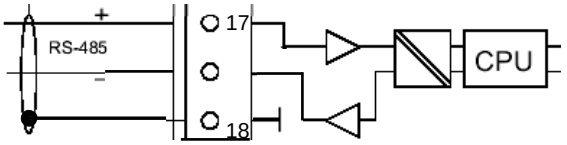
Interface module Profibus DP/DPV1 (slave) V62619A-0346470





Interface module Latcom V62619A-9760244





interface module Profibus V62619A-0346470

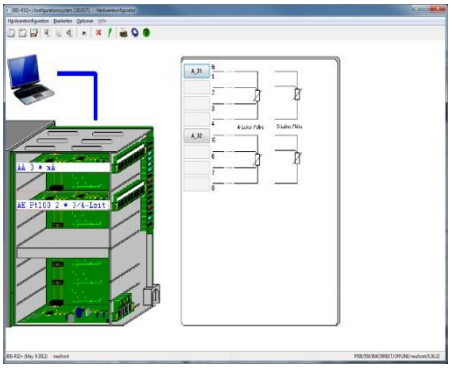
Module PROFIBUS DP/DPV1 (Slave)
Can be pushed in all slots. Module with the full functional capabilities of DIN 19245, part 1 to 4. Maximum 1 Module can be used in the device. Transmission rate up to 1.5 MBaud.

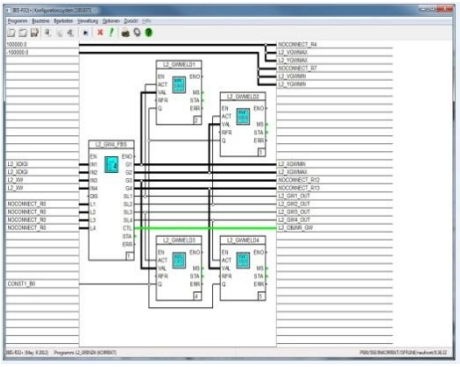
Bus terminating adapter is possible as accessory, catalog number 62619- 0346488.

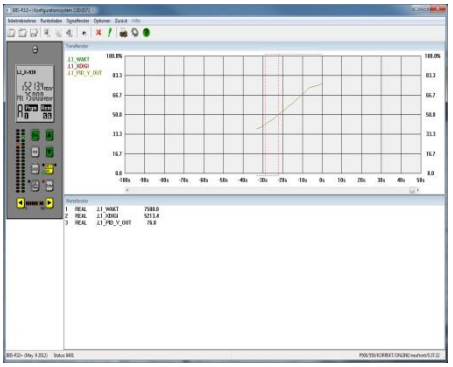
Latcom-Modul for Protrenic 700 V62619A-9760244

Module RS 485 Latcom
(can only be used in slot A, connectors 17,18,19)
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 base for inputs/outputs and also to realise redundancy with to controllers in simple fashion. Transmission rate up to 115.2 kBaud / 375 kBaud. (product-specific, unpublished protocol for lateral communication between several controllers)

Software







Ordering Information	Order Number							
IBIS-R 32+ parameterization- and configuration program	V62692A-			1	0		0	3	
Program list configuration (no dongle) and free Configuration on (with dongle) CD								
Single version including documentation and dongle		2						
Single version including documentation without dongle		4						
language								
German			1					
English			2					
French			3					
Dongle type								
without						0		
USB port						2		

ProcessStudio for IBIS-R 32+, with IBIS-R 32+ Update	V62692A- 4111003

Software
IBIS R32+ and Prozess-Studio

IBIS-R 32+
-contains the parameter setting, list configuration and commissioning functions
-the function block editor (IEC 1131-3) for realizing any calculation or PLC function can only be used with a hard key (dongle).
Process-Studio for IBIS-R
-Simulation of controller and process on PC
-Riskless testing of configuration for Protrenic / Digitrenic
-Integrated into the environment of IBIS-R
-Time saving preliminary start-up

Calculation of specific values from one or more measured¬
Parameter setting
-Input of values in fully-defined device functions
Commissioning

Configuration
List configuration
-Selection of functions from the function list stored in the controller
Example:
Type of measurement, measuring range, linearization, scaling of inputs, Control action, controlled output etc.
Free configuration
Creation of user-specific configurations with analog and binary processing of the available inputs and outputs with the aid of the function block editor.
Example:

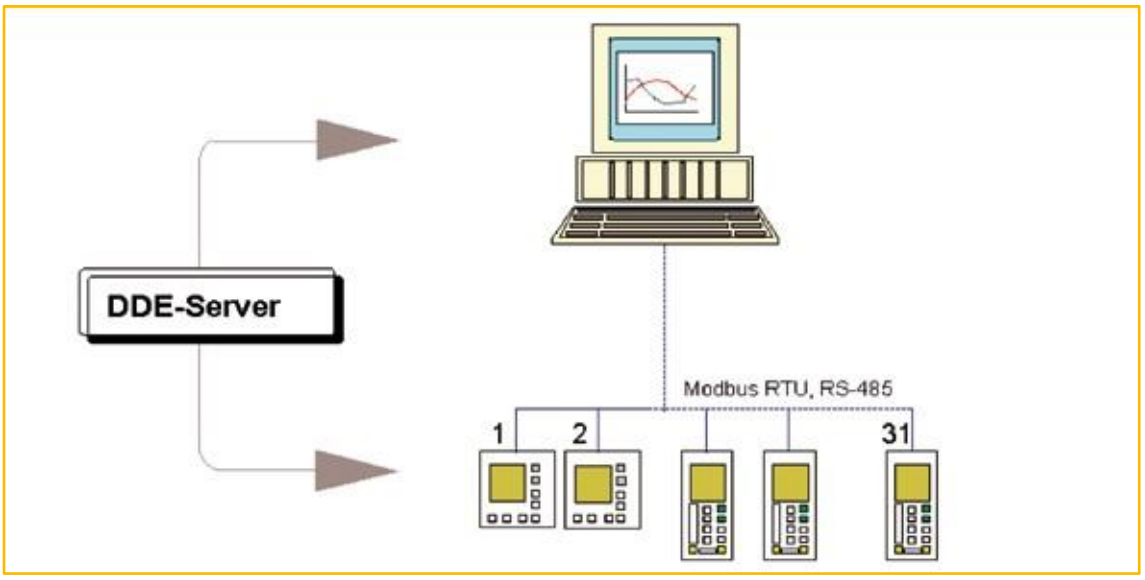
signals, construction of logic controls etc.

Display of front panel, measured values trends and parameters on-screen

Accessories:
USB dongle for IBIS-R 32+ No.: 62695-9105 642V; USB connection cable No.: 62695-9760 517; Upgrade from IBIS-R+ to IBIS-R32+ No.: 62695-9105 642T

Modusbus DDE-Server (16- und 32-Bit) und Sample32

V62695A-1100003 –> DDE-Server
V62695A-1100001 –> Sample32
V62695A-1100002 –> DDE-Server und Sample32



DDE-Server

Dynamic Data Exchange is a standard protocol for MS-Windows. DDE-enabled programs are f. e. all programs from MS-Office, but also program¬s like Lotus 1-2-3. DDE allows Windows-Programs to exchange data once or change-floated. The DDE-Server is able to write data into a device or read data from it as long as the PC is connected to the MODBUS RTU interface of the device.
The controller Protrenic 100, Protrenic 500/700 and Digitrenic 500/700 can be connected in a simple way to programs like MS-Excel

The data can be stored and in the same time or later in Excel be prepared and processed. Example:
-Production of operation and load minutes
-Evaluation of test series
-Serving and observing controllers
There are no programs in 'Visual Basic for applications' necessarily for the delivery of data from Excel to the controller. Those which can be read and to writing This file can be simply provided with a ASCII text editor for each MODBUS enabled device. For Protrenic and Digitrenic those files are already in the scope of our supply.

Modusbus DDE-Server (16- und 32-Bit) and Sample32

Sample32
Is an application program for the DDE-Server, this leads and run directly as application for MS-Excel.
Collect, representing and archiving the course of measuring data
measuring point overview, measuring tables with time stamp, trend representation of measuring data of up to 30 measuring points

Services

Gladly we provide appropriate configurations for the controllers of our products Digitrenic and Protrenic to match your customized settings and tasks. During production we co-operate closely with you and test correct functionality before we ship the goods. Beside standard configuration according price list, we offer as well customized configuration according engineering expense.

Ordering Information	Order Number										BA-Nr.
Configuration for Digitrenic	V61675A-			0	0	0	0	0	3		
Customer-specific configuration as separate item (Please enclose task in plain text)											
list configuration Free configuration (at cost price) D500/700 Adopted from previous order (BA-Nr. 302) D500/700 list configuration D100 Adopted from previous order (BA-Nr. 302)		1 2 4									
Packaging stored in the device, required modules installed (BA.-Nr. 301) Floppy disk 3.5 " by Email			1 2								
additional information entered at position of current. order Adopted from order (order number and position)											301 302

Ordering	Order number										BA-Nr.
Configuration for Protrenic	V62675A-			0	0	0	0	0	3		
Customer-specific configuration as separate item (Please enclose task in plain text)											
list configuration list configuration P500/700 Free configuration (at cost price) P500/700 taken from previous order (excluded if 302) P500/700 list configuration P100 Adopted from previous order (excluded if 302) P100		1 2 3 4 5									
Packaging stored in the device, required modules installed (BA.-Nr. 301) Floppy disk 3.5 " Memory card for only P500/700 by Email			1 2 3 4								
additional information entered at position of current. order Adopted from order (order number and position)											301 302

Training courses

We offer training courses around the topic of our controllers. If it's regarding the operation of the devices or up to the application of the software IBIS R. You specify the place of the training. If you have any demand, don't hesitate to contact us.

Index

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