Single-loop Process Controller D100
Versatile controller for all basic control functions

Intelligent, compact and efficient

P, PI, PD or PID characteristic
— Continuous, time proportioning ON/OFF, heat-off-cool and motorized valve output

Basic unit with 1 universal input, 1 analog output, 2 binary inputs/outputs and 3 relay outputs
— Optional second 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 LCD display with color interchange (red/green)

Plug-in module slot
— For analog and digital inputs/outputs extension or RS 485 interface for Modbus or PROFIBUS DP

Serial interface
— For parametrization and configuration as standard
Description

The industrial controller Digitric 100 is a single channel compact controller used for complementing single control loops for automating small and medium-sized processes in control engineering. It is universally applicable and suitable for accomplishing simple and special control tasks.

Basic version

1 Universal input for the controlled variable. Without having to modify the hardware, thermocouples, the resistance thermometer Pt 100, teletransmitters and standard signals 0/4...20 mA can be connected. If non-linearized temperature transmitters are used, linearization is effected in the controller. Linearization tables for all standard sensors are stored in the device.

1 analog output (0/4...20 mA) for the actuating signal or other values, e.g. for setpoint or actual values.

2 binary inputs/outputs. These inputs and outputs can be configured by the user. These can thus not only be used optionally as controller or alarm outputs but also as inputs for switching over the controller (e.g. manual/automatic).

3 relays for the actuating signal or alarm outputs and for fault reporting.

...a rear interface to connect a parameterisation and configuration PC. This makes the setting work in connection with commissioning easier.

Hardware extension

2nd universal input with integrated transmitter power supply (50 mA) for e.g. external setpoint, feed forward or position feedback for motorized valve control.

1 module slot for extending the input and output levels.

Front control panel

The front control panel gives information on the state of the process and permits specifically-targeted intervention in the process sequence. Digital displays and clear-text information permit precise reading and accurate setting of set point and correction values. The display colour can be set to green or red and can be interchanged as function of process status.

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 (adjustable acc. to configuration list)

Proportioning ON/OFF controller, PID characteristic.

Heat/off/cool-control, optionally with two switching or one continuous and one switching output.

Motorized valve control for motor driven valves, butterfly valves and gate valves.

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 PID parameters, ramp rates for setpoints and control output, alarm setpoints etc., can be set.

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 with the same configuration (see Data Sheet 62-6.70 EN).
Single-loop process controller D100
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Technical data

Inputs

Common data:
without electronic isolation
Resolution ≤ 0.01 %
Accuracy (referred to nominal range) ≤ 0.2 %
Temperature effects ≤ 0.2 %/10 °C
Hardware input filter limit frequency 7 Hz

Analog:
Universal input AI01
connected to internal device ground
used for standard signal
0/4...20 mA at 50 Ω ± 1 %

Overcurrent/polarity reversal protection
up to ± 40 mA

Linearization, square-rooting
configurable
at 4...20 mA
Line break monitoring with configurable reaction

used for thermocouples

<table>
<thead>
<tr>
<th>Types</th>
<th>Temperature range</th>
<th>Voltage</th>
<th>Typical accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>-200...1200 °C</td>
<td>77.43 mV</td>
<td>≤ 0.2 %</td>
</tr>
<tr>
<td>E</td>
<td>-200...1000 °C</td>
<td>85.18 mV</td>
<td>≤ 0.2 %</td>
</tr>
<tr>
<td>K</td>
<td>-200...1400 °C</td>
<td>61.53 mV</td>
<td>≤ 0.2 %</td>
</tr>
<tr>
<td>L</td>
<td>-200...1000 °C</td>
<td>78.21 mV</td>
<td>≤ 0.2 %</td>
</tr>
<tr>
<td>U</td>
<td>-200... 600 °C</td>
<td>40.00 mV</td>
<td>≤ 0.3 %</td>
</tr>
<tr>
<td>R</td>
<td>0...1700 °C</td>
<td>20.22 mV</td>
<td>≤ 0.5 %</td>
</tr>
<tr>
<td>S</td>
<td>0...1800 °C</td>
<td>18.72 mV</td>
<td>≤ 0.5 %</td>
</tr>
<tr>
<td>T</td>
<td>-200... 400 °C</td>
<td>26.47 mV</td>
<td>≤ 0.4 %</td>
</tr>
<tr>
<td>B</td>
<td>0...1800 °C</td>
<td>13.24 mV</td>
<td>≤ 0.6 %</td>
</tr>
<tr>
<td>D</td>
<td>0...2300 °C</td>
<td>36.92 mV</td>
<td>≤ 0.4 %</td>
</tr>
</tbody>
</table>

Reference junction compensation
internal or external: 0, 20, 50 or 60 °C

Internal reference junction
Error limit ≤ 1 °C/10 K
Reference temperature 22 °C ± 1 °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
≤ 1 mA

Measuring circuit
2-wire circuit to 40 Ω line resistance
Line balancing by software
3-wire circuit
for symmetrical lines up to 3 x 10 Ω

used for resistance teletransmitter (potentiometer)

Measuring ranges
150 Ω, (75...200 Ω); 1.5 kΩ (0.75...2 kΩ)

Measuring current
≤ 1 mA
other data as resistance thermometer

Optional universal input 2 (AI02)
with integrated transmitter power supply
Input for mA, Pt100, thermocouple or potentiometer, technical data as AI01, but with electronic isolation.

Permissible common-mode voltage against device ground
± 4 V DC

Permissible differential-mode voltage Uss (50 Hz)
50 mV

Transmitter power supply
output voltage 20...25 V DC, 50 mA

Short-circuit proof
automatic cut off on overload

binary:
2 binary inputs/outputs (B01/B02)
Direct/reverse function configurable

<table>
<thead>
<tr>
<th>Input</th>
<th>Rated signal</th>
<th>Voltage range</th>
<th>Current range</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 19240</td>
<td></td>
<td>V DC</td>
<td></td>
</tr>
<tr>
<td>Rated level</td>
<td>24</td>
<td>20.4...28.8</td>
<td>approx. 1 mA</td>
</tr>
<tr>
<td>1-signal</td>
<td>24</td>
<td>13.0...30.2</td>
<td>approx. 1 mA</td>
</tr>
<tr>
<td>0-signal</td>
<td>0</td>
<td>- 3.0... 5.0</td>
<td>&lt; 0.2 mA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output</th>
<th>Rated signal</th>
<th>Voltage range</th>
<th>Current range</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 19240</td>
<td></td>
<td>V DC</td>
<td></td>
</tr>
<tr>
<td>Rated level</td>
<td>24 ext.</td>
<td>20.4...28.8</td>
<td>100 mA</td>
</tr>
<tr>
<td>1-signal</td>
<td>24</td>
<td>13.0...30.2</td>
<td>0...max. mA</td>
</tr>
<tr>
<td>0-signal</td>
<td>0</td>
<td>- 3.0... 5.0</td>
<td>0...0.15 mA</td>
</tr>
</tbody>
</table>

Switching frequency ≤ 8 Hz

Outputs

Analog output AO01
galvanical isolated

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

Control range
0...≥ 21 mA

Load-dependency
0.1 %/100 Ω

Resolution
≥ 0.01 %

binary:
see inputs
Single-loop process controller D100  
Versatile single loop controller for all basic control functions

3 relays with NO contact (B03/B04/B05)  
for max. 250 V AC; 3 A resistive load  
for min. ≥ 12 V AC; ≥ 100 mA  
Contact material AgCdO

Programmer  
10 programs can be stored  
each program:  
15 segments  
Set point in physical units  
Segment time 0...99:99:9 hours, four digital tracks

Serial interfaces  
TTL interface for connection to PC with fixed telegram format matching parameter setting and configuration program IBIS-R (see Data Sheet 62-6.70 EN).  
For adapter cable see ordering information.  
Bus capable RS 485 interface retrofittable (see modules).

CPU data  
Measured value and correction value resolution  
≤ 0.01 %

Cycle time  
approx. 100 ms

Configuration and data backup  
Flash-EPROM

Power supply  
115 to 230 V AC (90...260 V), 47...63 Hz  
Power consumption:  
Max. 13.3 VA (11 W)  
Power failure bridging ≥ 150 ms at ≥ 180 V AC  
24 V DC  
-25...+30 %, residual ripple ≤ ± 3 Vrms  
24 V AC  
-15...+10 %, 47...63 Hz  
Power consumption:  
Max. 15 VA (12 W)  
Power failure bridging ≥ 20 ms at 0.85 x Unom

Power factor cosϕ = 0.7

Safety  
The device needs no external safety of power supply

Electromagnetic compatibility
Meets protection requirements of EMC directive 89/336/EEC, 5/89  
Interference resistance EN 61326-1  
Interference emission EN 50081-1, 1/92  
(referred to: EN 55011, class B)  
Max. interference resistance, if device is mounted in a metal panel

Connection, case, safety
Degree of protection to DIN EN 60529  
Front panel: IP 65  
Case: IP 50  
Terminals: IP 20

Electrical safety  
Class of protection 1 to EN 61010 T.1 (VDE 0411 T.1, March 1994)  
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 but excepting all relay outputs are functional extra-low voltage circuits to DIN VDE 0106, part 101.  
The safe isolation of these circuits meets the requirements to DIN VDE 0106, part 101.

Mechanical stress features  
to DIN IEC 68, part 2-27 and 68-2-6  
Shock 30 g/18 ms; Vibration 2 g/0.15 mm/5...150 Hz

Case dimensions  
Front panel 96 mm x 96 mm; installed depth 145 mm

Panel cutout  
92 mm x 92 mm to DIN 43700

Mounting  
in panel  
Horizontal high-density construction possible  
Vertical spacing 36 mm  
Fixing with straining screws

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  
approx. 600 g without modules  
additional module approx. 40 g  
additional relay module approx. 80 g

Scope of supply and delivery  
2 straining screws (integrated in case), Operating Manual and plug-in screw terminals

Modules  
One of the modules listed below can be plugged in for extending the I/O or for using digital communication.
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Analog inputs

Module AE4_MA for standard signals
4 inputs
0/4...20 mA with electronical 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_{pp}
 Destruction proof
Input current < 50 mA
Voltage between input and ground ± 50 V

Module AE4_MV for thermocouples
4 inputs
-10...80 mV, with electronical 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_{pp}
 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 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 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
Range
0...400 Ω
Line resistance
0...125 Ω per line
Permissible differential mode voltage
100 mV_{pp}
Signal resolution
≤ 0.01 % for 400 Ω
Measuring current
≤ 1.5 mA
Single-loop process controller D100
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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, galvanical isolation
Function configurable as input or output, direct or reverse action

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

Module BA4_REL
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: $U_i = 9.5$ V
- Internal resistance: $R_i = 1$ kΩ
- 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: $R_E > 6$ kΩ
- Signal range: $L = -3...5$ V/H = 13...20.2 V

**Max. 4 digital inputs TTL (0/5 V DC)**
- Input resistance: $R_E > 6$ kΩ
- Signal range: $L = 0...0.8$ V/H = 3.5...24 V

**Accuracy**
- ± 0.1 %

**Analog outputs**

**Module AA3_MA**

- Triple current output
- Range: 0/4...20 mA at 750 Ω
- Signal resolution: ≤ 0.02 % for 20 mA
- Load dependency: 0.1 %/100 Ω

**Module AA3_V**

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

**Interface modules**

**Module RS 485 or RS 232**

Interface module in accordance with RS 485 or RS 232 specification. Electrically isolated. Standard protocol: MODBUS-RTU.

**Module PROFIBUS DP/DPV1 (Slave)**

Module with the full functional capabilities of DIN 19245, parts 1 to 4. Transmission rate up to 1.5 MBaud. Bus terminating adapter see accessories on page 10.
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Dimensional drawings

Connection diagrams of basic models

Connection diagram

AI01  Universal input 1
AI02  Universal input 2, optional
B01...B02  Binary inputs or outputs, Function configurable
AO01  Analog output 1 (0/4...20 mA)
21 V  Feed for 2-wire transmitter and/or binary inputs and outputs, optional
B  Jumper required (terminal 9/13) only if power feed to transmitter for AI02 from terminal 1, or if AI02 is used for Pt100 or potentiometer input
BO03...BO05  Relay outputs (NO contact) max. 250 V AC/1 A
## Ordering information

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>V61611A-</td>
<td>0</td>
</tr>
</tbody>
</table>

### Power supply
- 115-230 V AC
- 24 V UC

### Basic instrument with
- 1 universal input
- 2 universal inputs with integrated transmitter supply

### No extension module

### Extension module Analog Inputs
- 4fold thermocouple
- 2fold thermocouple or mA with galvanical isolation
- 4fold Pt100 in 2-wire circuit
- 2fold Pt100 in 3-/4-wire circuit
- 4fold frequency input
- 4fold 0/4…20 mA with electrical isolation

### Extension module Digital Inputs/Outputs
- 6fold binary inputs/outputs

### Extension module Analog Outputs
- 3fold 0/4…20 mA
- 3fold 0/2…10 V
- 4fold relays

### Extension module Communication
- RS 485 for MODBUS RTU
- RS 232 for MODBUS RTU
- PROFIBUS DP/DPV1

### Adjusted control strategy

<table>
<thead>
<tr>
<th>Control strategy</th>
<th>Control output</th>
<th>Sensor type (selectable at the controllers faceplate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous control</td>
<td>Control output 4...20 mA</td>
<td>4...20 mA (0...100 %)</td>
</tr>
<tr>
<td>Time proportioning</td>
<td>Control output relay</td>
<td>4...20 mA (0...100 %)</td>
</tr>
<tr>
<td>ON/OFF control</td>
<td>1 Err-high/low alarm</td>
<td></td>
</tr>
<tr>
<td>Heat-Off-Cool control</td>
<td>2 control outputs relay</td>
<td>4...20 mA (0...100 %)</td>
</tr>
<tr>
<td>Motorised valve control</td>
<td>2 control outputs relay</td>
<td>4...20 mA (0...100 %)</td>
</tr>
<tr>
<td>Alarm station</td>
<td>1 PV high and 1 PV low alarm</td>
<td>4...20 mA (0...100 %)</td>
</tr>
</tbody>
</table>

### Approvals
- Standard (CE)
- DIN 3440 (in preparation)
- VdTÜV water level (in preparation)

### Design Front
- Black, RAL 9005 with grey keys
- Light grey, RAL 9002 with blue-white keys

### Manual
- German
- English
- French

### Notes:
The universal controller Digitric 100 can optionally be pre-adjusted for a basic control strategy at the factory (see Ordering information). This strategy can be changed or extended to any other function by the user.
## Ordering information

The extension modul can also be ordered separately and plugged in later.

### Accessories

<table>
<thead>
<tr>
<th>Part</th>
<th>Designation</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSD</td>
<td>Device master data file for PROFIBUS DP, disk</td>
<td>62695-3601109</td>
</tr>
<tr>
<td>Bus terminating adapter</td>
<td></td>
<td>62619-0346488</td>
</tr>
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</table>

### Type of modules

<table>
<thead>
<tr>
<th>Designation</th>
<th>Code</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AE4_mV</td>
<td>4fold thermocouple</td>
<td>E 62619-0346280</td>
</tr>
<tr>
<td>AE2_mA/mV_TR</td>
<td>Dual thermocouple or mA with galvanical isolation</td>
<td>B 62619-0346250</td>
</tr>
<tr>
<td>AE4_PT_2L</td>
<td>4fold Pt100 in 2-wire circuit</td>
<td>F 62619-0346255</td>
</tr>
<tr>
<td>AE2_PT_3/4L</td>
<td>2fold Pt100 in 3-/4-wire circuit</td>
<td>G 62619-0346281</td>
</tr>
<tr>
<td>AE4_F</td>
<td>4fold frequency input</td>
<td>H 62619-0346444</td>
</tr>
<tr>
<td>AE4_mA</td>
<td>4fold 0/4…20mA with electrical isolation</td>
<td>A 62619-0346254</td>
</tr>
</tbody>
</table>

### Binary inputs/outputs

<table>
<thead>
<tr>
<th>Designation</th>
<th>Code</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEA6_BIN</td>
<td>6fold binary input/output</td>
<td>M 62619-0346282</td>
</tr>
</tbody>
</table>

### Outputs

<table>
<thead>
<tr>
<th>Designation</th>
<th>Code</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA3_mA</td>
<td>Triple 0/4…20 mA</td>
<td>N 62619-0346252</td>
</tr>
<tr>
<td>AA3_V</td>
<td>Triple 0/2…10 V</td>
<td>P 62619-0346253</td>
</tr>
<tr>
<td>BA4_REL</td>
<td>4fold relay</td>
<td>T 62619-0346263</td>
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### Interfaces

<table>
<thead>
<tr>
<th>Designation</th>
<th>Code</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 485</td>
<td>RS 485, not dependent on protocol, bus compatible</td>
<td>U 62619-0346324</td>
</tr>
<tr>
<td>RS 232</td>
<td>RS 232, not dependent on protocol, not bus compatible</td>
<td>Y 62619-0346326</td>
</tr>
<tr>
<td>PROFIBUS</td>
<td>PROFIBUS DP/DPV1 (slave)</td>
<td>Z 62619-0346470</td>
</tr>
</tbody>
</table>

### Ordering information

<table>
<thead>
<tr>
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<th>Code</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>List configuration</td>
<td>V61675A-</td>
<td>0 0 0 0 0</td>
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<tr>
<td>Customer-specific configuration as separate item (please enclose task definition in clear text)</td>
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<td></td>
</tr>
</tbody>
</table>

### List configuration

<table>
<thead>
<tr>
<th>Code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Adopted from previous order (see Code No. 302)</td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### Delivery

<table>
<thead>
<tr>
<th>Code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stored in unit (see Code No. 302)</td>
</tr>
<tr>
<td>2</td>
<td>3.5 inch. disk</td>
</tr>
<tr>
<td>4</td>
<td>by E-Mail</td>
</tr>
</tbody>
</table>

### Configuration

<table>
<thead>
<tr>
<th>Code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Entered at position of current order (clear text)</td>
</tr>
<tr>
<td>302</td>
<td>Adopted from order number and position of previous order (clear text)</td>
</tr>
</tbody>
</table>

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

### Special features

<table>
<thead>
<tr>
<th>Designation</th>
<th>Catalog No.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessories</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IBIS-R</td>
<td>PC program for setting parameter and configuration (see Data Sheet 62-6.70 EN)</td>
<td>62695-0346270</td>
</tr>
<tr>
<td>Spare parts</td>
<td>Analog input AI02 with integrated transmitter power supply</td>
<td>0346866V</td>
</tr>
</tbody>
</table>

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**Single-loop process controller D100**

Versatile single loop controller for all basic control functions

10/61.6.11 EN
**Applications**

1. ON/OFF control e.g. for furnace control
2. ON/OFF control with additional heating power selector high-low-off
3. Heat-off-cool control, e.g. heating (ON/OFF), cooling (continuous)
4. Continuous control e.g. for flow control
5. Ratio control
6. Motorized valve control with or without position feedback
7. Program control with up to 10 profiles
8. Flow compensation for gas or steam
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