

# Mass Flow Transmitter *procom DZL 363*

## Multifunctional Transmitter for the Promass 63 Measuring System



### Easy

- Fast commissioning using “Quick Setup”
- E+H operating matrix for all parameters
- Menu driven dialogue during operation
- Programmable function keys
- Four-line, backlit display
- Clear text display (multi-language)

### Safe

- ISO 9001 manufacturer, quality assured
- CE conformity, EMC qualified
- EEPROM stores data on power failure (no batteries required)
- Permanent self-diagnosis with alarm function
- Ex e and Ex i connection to the Promass 63 sensors
- Two-wire connection for data transmission and sensor supply

### Universal

- Can be combined with all Promass 63 sensors
- Broad functionality: *One* transmitter for mass, volume, density and temperature
- Several inputs and outputs
- Installation up to 1200 m from the sensor
- Racksyst cassette, panel mounted housing and field housing available
- Serial interfaces for digital communication
- Operation via Commuwin II

Endress + Hauser

Nothing beats know-how



# Measuring system

## Measuring system

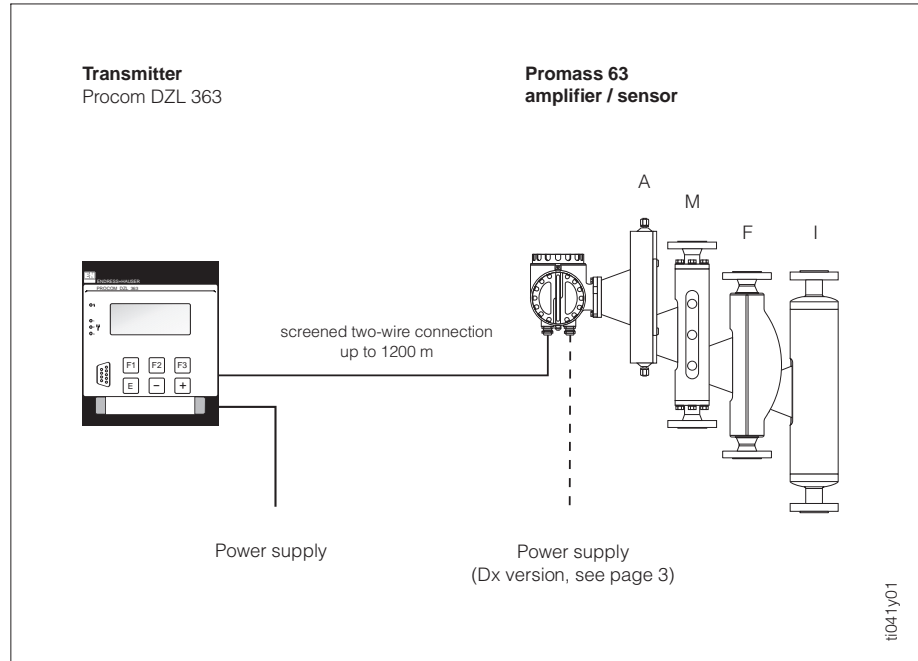
The "Procom DZL 363" transmitter can be freely combined with any instrument of the modular Promass 63 measuring system. Therefore, the measuring device consists of:

- a Procom DZL 363 transmitter,
- a Promass 63 amplifier (blind version with "DZL 363" interface),
- Promass A, I, M or F sensor.

## Fields of application

The Procom DZL 363 transmitter is a multifunctional device which substantially complements the range of possible applications of the already proven Promass 63 measuring system:

- Several inputs and outputs
- The Procom transmitter can be mounted at a distance of up to 1200 metres from the sensor, suitable for use in control rooms of medium-sized or large industrial plants.



The Procom DZL 363 – can be freely combined with all Promass 63 measuring instruments.

## Programming

The "Quick Setup" programming menu allows fast commissioning of the transmitter, especially for standard applications.

For special applications the Procom DZL 363 offers a wide range of functions which the user can individually set, thereby tailoring the unit to the process conditions. All functions can be configured using the E+H programming matrix.

The most commonly used functions can be directly accessed using the three function keys.

## Display

The unit is equipped with a four-line backlit display. Actual process data, error messages as well as dialogue text for programming can be displayed in different languages.

## Inputs and outputs

The Procom DZL 363 has several inputs and outputs for complex process control and automation systems:

- 4 totalizers
- 2 auxiliary inputs
- 3 current outputs
- 3 pulse/frequency outputs
- 3 relay outputs

All inputs and outputs are configurable via the E+H programming matrix:

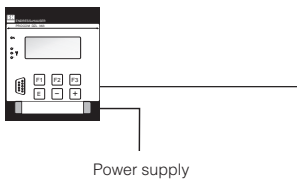
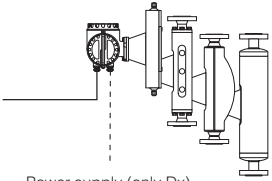
- Input signal type
- Assignment of output variables
- Pulse output signal type
- Range scaling etc.

Using the Rackbus and HART interfaces, it can be connected via gateways to other E+H transmitters as well as to higher process control systems (MODBUS, PROFIBUS, etc.).

# Combination Possibilities

**DoS version**  
(Data over Supply)  
Promass 63 is supplied with power by Procom DZL 363.

**Dx version**  
Promass 63 with a separate power supply.  
Two-wire connection to Procom DZL 363 only for data transmission.

	Procom DZL 363		Promass 63	
	 Power supply		 Power supply (only Dx)	
	<i>Power supply</i>	<i>Order No.</i>	<i>Power supply</i>	<i>Order No.</i>
<b>DoS</b>	85...253 V AC → 20...55 V AC/ 20...62 V DC	DZL363 – * 51 *** DZL363 – * 52 ***	by Procom →	63* ** – *****A3G
<b>Dx</b>	85...253 V AC → 20...55 V AC/ 20...62 V DC	DZL363 – * 01 *** DZL363 – * 02 ***		85...253 V AC → 63* ** – *****A1L 20...55 V AC/ → 63* ** – *****A2L 20...62 V DC  Intrinsically safe version (Ex i) 85...253 V AC → 63* ** – *****A1M 20...55 V AC/ → 63* ** – *****A2M 20...62 V DC

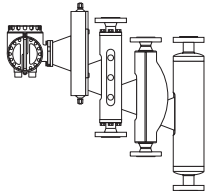
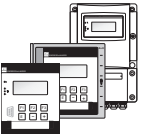
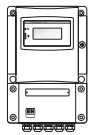
# Ex Approvals Overview

For details: see separate Ex documentation

**FM CSA**  
XP explosion proof  
IS intrinsically safe [Ex ia]  
NI non-incendive equipment  
ANI –  
AIS associated equipment [Ex ia]

\* ANI generally included

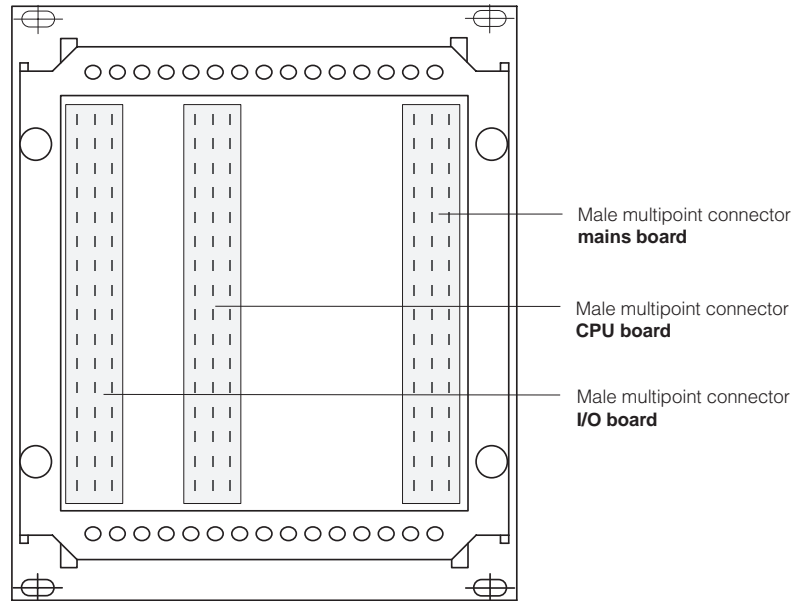
**VDE 0165**  
Manufacturer's certificate for zone 2

Promass 63							
Zone 1		Cl. I, Div. 1	Zone 2		Cl. I, Div. 2 Cl. II, Div. 1; Cl. III		
CENELEC SEV		FM CSA	VDE 0165		FM CSA		
							
Procom DZL 363							
<b>Safe area</b> Racksyst cassette, panel housing, field housing  		<b>DoS</b> CENELEC, SEV FM, CSA	– –	EEx de/d –	– XP	VDE 0165 –	– NI
		<b>Dx</b> CENELEC, SEV FM, CSA	– ANI *	EEx de/d –	– XP	VDE 0165 –	– NI, ANI
		<b>Dx intrinsically safe</b> CENELEC FM, CSA	[EEx ib] AIS	EEx de/d [ib] –	– XP, IS	– –	– –
<b>Zone 2</b> <i>Cl. I, Div. 2; Cl. II, Div. 1; Cl. III</i> Field housing only  		<b>DoS</b> VDE 0165 FM, CSA	VDE 0165 NI	EEx de/d –	– XP	VDE 0165 –	– NI
		<b>Dx</b> VDE 0165 FM, CSA	VDE 0165 NI, ANI *	EEx de/d –	– XP	VDE 0165 –	– NI, ANI
		<b>Dx intrinsically safe</b> CENELEC, SEV FM, CSA	[EEx ib] NI, AIS	EEx de/d [ib] –	– XP, IS	– –	– –

# Electrical Connections

## Wiring diagram (Racksyst cassette, panel mounted housing)

Rear view



ti041y02

	d	b	z	<b>Mains board</b>	
2	█	□	█ ⊥	d2 = A data (Dx+) z2 = Earth connection	Sensor connection (only Dx version)
4	█	□	█ ⊥	d4 = B data (Dx-) z4 = Earth connection	
6	□	□	□		
8	█	□	□	DoS +	Sensor connection (only DoS version)
10	█	□	□	DoS -	
12	█ ⊥	█ ⊥	█ ⊥	3 Earth connection terminals	Earth connections
14	□	□	□		
16	□	□	█ ⊥	1 Earth connection terminal	Earth connection
18	█ ⊥	█ ⊥	█ ⊥	3 Earth connection terminals	Earth connections
20	□	□	□		
22	□	□	□		
24	□	□	□		
26	□	□	□		
28	□	□	□		
30	█ L1	□	█ L-	L1 for AC, L- for DC	Power supply
32	█ N █ L1+	□	█ ⊕	N for AC, L+ for DC, z32 = Earth connection	

**Caution!**

At least two of the ground terminals z2, z4, z16, and z32 have to be connected to the protective earth. Terminals d12, b12, z12, d18, and z18 are additional earth terminals you may use to improve electromagnetic compatibility (EMC).

	d	b	z	CPU Board	
2	□	■	■	b2 = B data z2 = A data	Rackbus RS 485 (Panel housing)
4	□	■	■	b4 = Earth connection z4 = Rackbus data	E+H Rackbus (Rack)
6	□	□	□		
8	□	□	□		
10	■ ⊥	■ ⊥	■ ⊥	3 Earth connection terminals	Earth connections
12	□	□	□		
14	□	□	□		
16	■	■	■	d16/b16 = HART interface 1 z16 = MUS+	HART master interfaces (in prep.)
18	■	■	■	d18/b18 = HART interface 2 z18 = MUS-	
20	■ ⊥	■ ⊥	■ ⊥	3 Earth connection terminals	Earth connections
22	□	□	□		
24	■	■	■		External keyboard connection (in prep.)
26	■	■	■		
28	■	■	■		
30	■	□	□		
32	■	■	■		Data logger interface (in prep.)

	d	b	z	I/O Board	
2	■	■	■	(+) Output: d2 = 1 b2 = 2 z2 = 3	Pulse/frequency outputs 1, 2, 3
4	■	■	■	(-) Earth, all linked	
6	■	■	□	(+) Current input: d6 = 1 b6 = 2	Current inputs 1, 2 (in prep.)
8	■	■	□	(-) Earth connection: d8 = 1 b8 = 2	
10	■	■	□	(+) Auxiliary input: d10 = 1 b10 = 2	Auxiliary inputs 1, 2
12	■	■	□	(-) Earth connection: d12 = 1 b12 = 2	
14	■	■	■	D Testing terminals for current measurement	Current outputs 1, 2, 3
16	■	■	■	(+) Current output: d16 = 1; b16 = 2; z16 = 3	
18	■	■	■	(-) Earth connection: d18 = 1; b18 = 2; z18 = 3	
20	■ ⊥	■ ⊥	■ ⊥	3 Earth connection terminals	Earth connections
22	■	□	■	d22 = NO contact z22 = NC contact	Relay output 1
24	□	■	□	b24 = common contact	
26	■	□	■	d26 = NO contact z26 = NC contact	Relay output 2
28	□	■	□	b28 = common contact	
30	■	□	■	d30 = NO contact z30 = NC contact	Relay output 3
32	□	■	□	b32 = common contact	

### Galvanic isolation

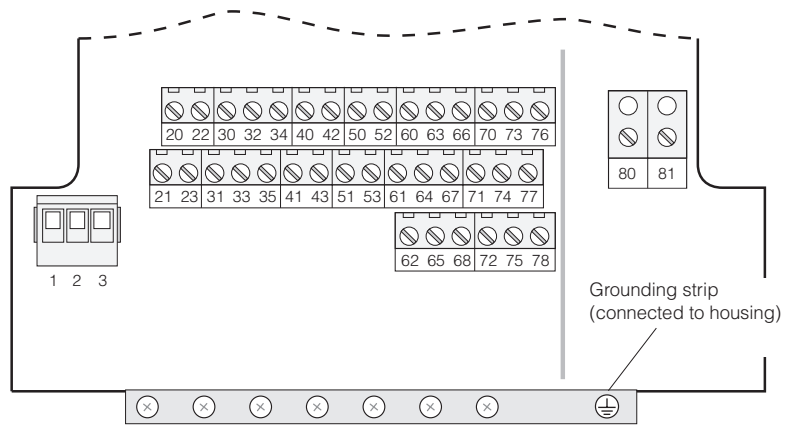
Power supply: 1000 V AC against earth, relays, inputs/outputs and sensor  
 Relays: 1000 V AC against earth, supply, inputs/outputs and sensor  
 Sensor connection: 1500 V AC against earth, supply, relays and inputs and outputs  
 Inputs/outputs: 500 V AC against earth

The inputs and outputs are combined into the following groups, each with the same earth and galvanically isolated from each other (500 V DC):

- Current output 1, 2, 3
- Current input 1, 2
- Pulse/frequency output 1, 2, 3
- RS 232 interface (socket on the display front panel) and keyboard connection

# Electrical Connection

Wiring diagram (field housing)



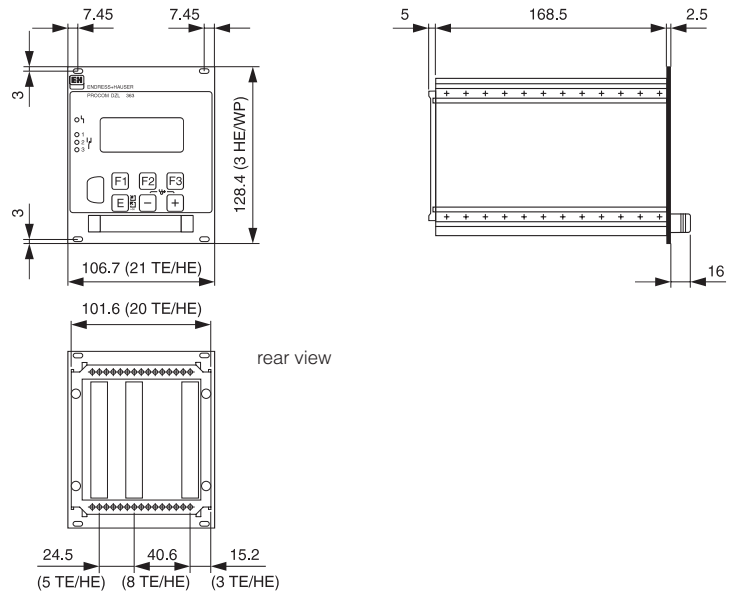
Galvanic isolation: see page 5

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<b>1</b> <b>2</b> <b>3</b> <b>Grounding strip</b>	L- for DC L1 for AC N for AC, L+ for DC Ground connection for protective earth and cable screen	Power supply
<b>20</b> <b>21</b>	A data B data	Rackbus RS 485
<b>22</b> <b>23</b>		Data logger (in prep.)
<b>30</b> <b>32</b> <b>34</b> <b>31, 33, 35</b>	(+) Pulse/frequency output 1 (active or passive) (+) Pulse/frequency output 2 (active or passive) (+) Pulse/frequency output 3 (active or passive) (-) Common earth connection for all outputs	Pulse/frequency output 1, 2, 3
<b>40</b> <b>41</b> <b>42</b> <b>43</b>	(+) Current input 1 (-) Earth connection current input 1 (+) Current input 2 (-) Earth connection current input 2	Current input 1, 2 (in prep.)
<b>50</b> <b>51</b> <b>52</b> <b>53</b>	(+) Auxiliary input 1 (-) Earth connection auxiliary input 1 (+) Auxiliary input 2 (-) Earth connection auxiliary input 2	Auxiliary input 1, 2
<b>60</b> <b>61</b> <b>63</b> <b>64</b> <b>66</b> <b>67</b> <b>62</b> <b>65</b> <b>68</b>	(+) Current output 1 (-) Earth connection current output 1 (+) Current output 2 (-) Earth connection current output 2 (+) Current output 3 (-) Earth connection current output 3 Testing terminal, current output 1 Testing terminal, current output 2 Testing terminal, current output 3	Current output 1, 2, 3
<b>70</b> <b>71</b> <b>72</b>	(no) NO contact (c) Common contact (nc) NC contact	Relay output 1
<b>73</b> <b>74</b> <b>75</b>	(no) NO contact (c) Common contact (nc) NC contact	Relay output 2
<b>76</b> <b>77</b> <b>78</b>	(no) NO contact (c) Common contact (nc) NC contact	Relay output 3
<b>80</b> <b>81</b>	Dx version: A data (Dx+)      DoS version: DoS+ Dx version: B data (Dx-)      DoS version: DoS-	Connection to the Promass sensor

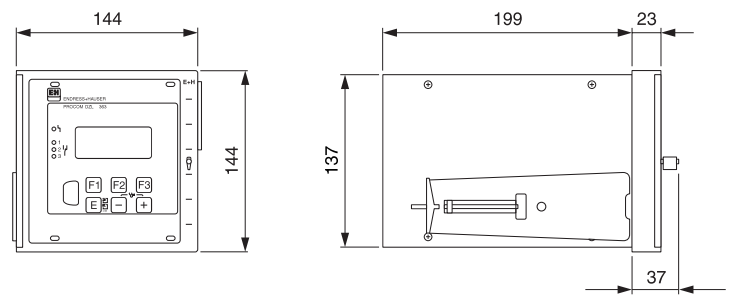
# Dimensions

## 19" Racksyst cassette (IP 20)



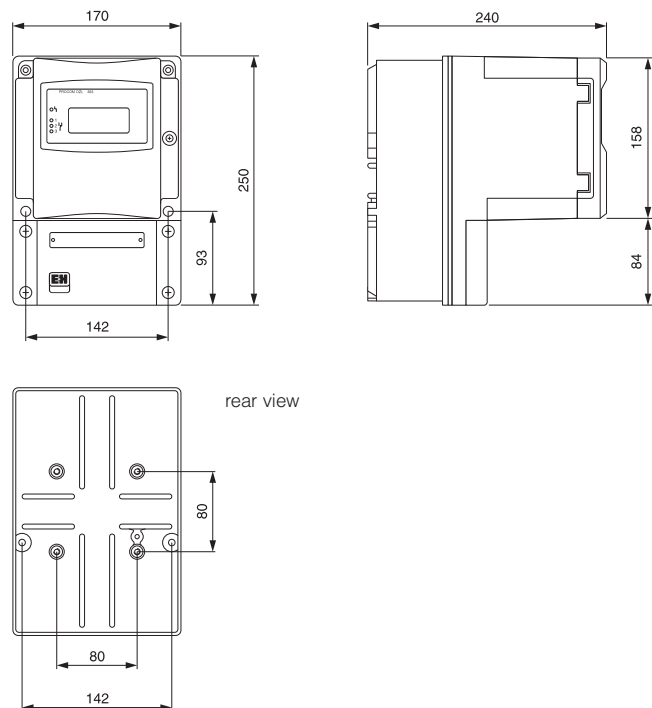
t1041y07

## Panel mounted housing (IP 20; front door IP 54)



t1041y08

## Field housing (IP 65)



t1041y09

# Technical Data

<b>Application</b>	
<i>Instrument name</i>	"Procom DZL 363" transmitter
<i>Instrument function</i>	Transmitter to process and display measuring data supplied by the Promass 63 flowmeters.
<b>Function and system design</b>	
<i>Measuring principle</i>	Transmitter for mass flow measurement according to the Coriolis measuring principle → see Technical Information TI 030D/06/en "Promass 63"
<i>Measuring system</i>	The complete measuring device consists of (see page 2): <ul style="list-style-type: none"> <li>• a Procom DZL 363 transmitter,</li> <li>• a Promass 63 amplifier (blind version with "DZL 363" interface), and</li> <li>• Promass sensors A, I, M or F.</li> </ul> <p>Two versions are available:</p> <ul style="list-style-type: none"> <li>• <i>DoS version (Data over Supply)</i> → data transmission and power supply for Promass 63 on the common two-wire connection</li> <li>• <i>Dx version (Data exchange)</i> → two-wire connection only for data transmission. Promass 63 with a separate power supply.</li> </ul>
<b>Input variables</b>	
<i>Measured variables</i>	Digital data exchange with Promass 63 sensors: <ul style="list-style-type: none"> <li>• mass flow</li> <li>• fluid density</li> <li>• fluid temperature</li> </ul>
<i>Measuring range</i>	Depending on the sensor used → see Technical Information TI 030D/06/en "Promass 63"
<i>Operable flow range</i>	Depending on the sensor used → see Technical Information TI 030D/06/en "Promass 63"
<i>Auxiliary inputs</i>	2 auxiliary inputs: $U = 3...30$ V DC, $R_i = 1.8$ k $\Omega$ pulsed or level mode  Configurable for: totalizer reset, start/stop timer, start/stop batching, zero point adjustment, full scale switching, positive zero return, zero point selection, batch quantity selection.
<i>Current inputs (in prep.)</i>	0/4...20 mA, $U_{max} = 24$ V DC
<b>Output variables</b>	
<i>Output signal</i>	<ul style="list-style-type: none"> <li>• <i>Relay output 1</i> max. 250 V AC / 1 A or max. 30 V DC / 0.1 A NO contact or NC contact available  Configurable for: error message (failure), empty pipe detection, full scale switching, batch contact, batch precontact, time measurement with totalizer, flow direction, limit value.</li> <li>• <i>Relay output 2 and 3</i> max. 250 V AC / 1 A or max. 30 V DC / 0.1 A; NO contact or NC contact available Configurable like relay 1 except for "FAILURE".</li> <li>• <i>Current output 1, 2 and 3</i> 0/4...20 mA (also acc. to NAMUR recommendations), <math>R_L &lt; 700</math> <math>\Omega</math>, freely assignable to different measured values, time constant freely selectable (0.01...100.00 s), full scale value selectable, temperature coefficient typ. 0.005% o.f.s./<math>^{\circ}</math>C Current output 1: with HART protocol</li> </ul>



<b>Output variables (continued)</b>	
<i>Output signal (continued)</i>	<ul style="list-style-type: none"> <li>• <i>Pulse/frequency output 1, 2 and 3</i> freely assignable to one flow variable, active or passive active: 24 V DC, 25 mA (250 mA during 20 ms), <math>R_L &gt; 100 \Omega</math>, passive: 30 V DC, 250 mA</li> <li>– <i>Frequency output</i>: full scale frequency selectable up to 10 kHz, On/off ratio 1:1, pulse width max. 2 s</li> <li>– <i>Pulse output</i>: pulse value adjustable, pulse polarity selectable, pulse width adjustable (50 ms...2 s), above a frequency of <math>1/(2 \times \text{pulse width})</math> the on/off ratio is 1:1</li> </ul>
<i>Signal on alarm</i>	<p>The following applies until the fault has been cleared:</p> <ul style="list-style-type: none"> <li>• Current output → failure mode selectable</li> <li>• Pulse/frequency output → failure mode selectable</li> <li>• Relay 1 → de-energised if configured to "FAILURE"</li> </ul>
<i>Load</i>	$R_L < 700 \Omega$ (current output)
<i>Creep suppression</i>	Switch points for low flow selectable. Hysteresis: -50 %
<b>Accuracy (process data)</b>	
<i>Reference conditions (Promass sensor)</i>	<p>Error limits based on ISO/DIS 11631:</p> <ul style="list-style-type: none"> <li>• 20...30 °C; 2...4 bar</li> <li>• Calibration rig traceable to national standards</li> <li>• Zero point calibrated under operating conditions</li> <li>• Field density calibration carried out (or special density calibration)</li> </ul>
<i>Measured error</i>	<p>Depending on the Promass sensors. For further details → see Technical Information TI 030D/06/en "Promass 63"</p> <p>Note!</p> <ul style="list-style-type: none"> <li>• The values shown there refer to the pulse/frequency output.</li> <li>• Additional error of the current output: <math>\pm 5 \mu\text{A}</math> typical.</li> </ul>
<i>Repeatability</i>	<p>Depending on the Promass sensors. For further details → see Technical Information TI 030D/06/en "Promass 63"</p>
<b>Operating conditions</b>	
<b>Installation conditions</b>	
<i>Installation instructions</i>	Installation possible in all positions.
<i>Connection cable length</i>	max. 1200 metres between transmitter and sensor screened cable, loop resistance max. 44 $\Omega$
<b>Ambient conditions</b>	
<i>Ambient temperature</i>	<p>-25...+40 °C (for all housing types)</p> <p>An all-weather cover should be used to protect the housing from direct sunlight when mounting in the open. This is especially important in warmer climates and with high ambient temperatures.</p>
<i>Storage temperature</i>	-40...+80 °C
<i>Degree of protection (EN 60529)</i>	Racksyst cassette: IP 20 Panel mounted housing: IP 20 (front door: IP 54) Field housing: IP 65
<i>Shock resistance</i>	according to IEC 68-2-31

# Technical Data

<b>Operating conditions (continued)</b>	
<i>Vibrational resistance</i>	1 g, 10...150 Hz according to IEC 68-2-6
<i>Electromagnetic compatibility (EMC)</i>	According to EN 50081 Part 1 and 2 / EN 50082 Part 1 and 2 as well as to NAMUR recommendations
<b>Mechanical construction</b>	
<i>Design, Dimensions (L x B x H)</i>	Racksyst cassette (19" / 21 TE): 192 x 106.7 x 128.4 mm Panel mounted housing: 236 x 144 x 144 mm Field housing: 250 x 170 x 240 mm  Dimensional drawings → see page 7
<i>Weights</i>	Racksyst cassette: 0.9 kg Panel mounted housing: 1.7 kg (without Racksyst cassette) Field housing: 5.0 kg (without Racksyst cassette)
<i>Materials</i>	<p><i>Racksyst cassette</i></p> <ul style="list-style-type: none"> <li>• Front plate made of aluminium with glued-on synthetic foil</li> <li>• Cassette housing made of aluminium and galvanized steel</li> </ul> <p><i>Panel mounted housing</i></p> <ul style="list-style-type: none"> <li>• Front door made of painted aluminium with inspection window</li> <li>• Tubus made of stainless steel</li> </ul> <p><i>Field housing</i></p> <ul style="list-style-type: none"> <li>• Housing body made of painted aluminium</li> <li>• Inspection window made of polycarbonate</li> </ul>
<i>Electrical connection</i>	<ul style="list-style-type: none"> <li>• Wiring diagrams: see page 4 ff.</li> <li>• Female multipoint connectors or cable glands:</li> </ul> <p>Field housing:            PG 13.5 cable glands (5...15 mm) or 1/2" NPT,            M20 x 1.5 (8...15 mm), G 1/2" threads for cable glands</p> <p>Racksyst cassette/panel mounted housing:            Female multipoint connectors type F according to DIN 41612</p> <ul style="list-style-type: none"> <li>• Galvanic isolation:            All circuits for inputs, outputs, power supply, and sensor are galvanically isolated from each other (see page 5).</li> </ul>
<b>User interfaces</b>	
<i>Operation</i>	On-site operation with: <ul style="list-style-type: none"> <li>• 3 operating elements for setting all instrument functions in the Endress+Hauser operating matrix.</li> <li>• 3 configurable function keys for quick access to frequently-used functions.</li> <li>• Diagnostic or help function (F2)</li> </ul>
<i>Display</i>	LC-display, illuminated, double-spaced with 16 characters each
<i>Communication</i>	<ul style="list-style-type: none"> <li>• E+H Rackbus and Rackbus RS 485 interface (Rackbus protocol)</li> <li>• HART protocol via current output 1</li> </ul>
<b>Power supply</b>	
<i>Supply voltage, frequency</i>	<p><i>Transmitter:</i>            85...253 V AC (45...65 Hz)            20...55 V AC, 20...62 V DC</p> <p><i>Sensors:</i></p> <ul style="list-style-type: none"> <li>• DoS version:            Supply by way of the Procom DZL 363 transmitter via the two-wire connection, 45...55 V DC, galvanically isolated</li> <li>• Dx version:            Promass 63 sensor with separate supply            (connection values: see Technical Information TI 030D/06/en "Promass 63")</li> </ul>

<b>Power supply (continued)</b>																	
<i>Power consumption</i>	<p><i>DoS version:</i> AC: &lt;30 VA (incl. sensor) DC: &lt;30 W (incl. sensor)</p> <p><i>Dx version:</i> AC: &lt;25 VA DC: &lt;25 W</p>																
<i>Power supply failure</i>	<p>Bridges min. one power cycle (22 ms).</p> <ul style="list-style-type: none"> <li>• EEPROM saves measuring system data on power failure (no batteries required).</li> <li>• DAT = exchangeable data storage module which stores all sensor data.</li> </ul>																
<b>Certificates and approvals</b>																	
<i>Ex approvals</i>	<p>Information on presently available Ex versions (e.g. CENELEC, SEV, FM, CSA) can be supplied by your E+H Sales Centre on request. All explosion protection data are given in separate documentation available on request.</p> <p>Overview of Ex approvals → see page 3</p>																
<i>CE mark</i>	<p>By attaching the CE-mark, Endress+Hauser confirms that the Procom DZL 363 transmitter has been successfully tested and fulfils all legal requirements of the relevant EC directives.</p>																
<b>Order information</b>																	
<i>Accessories</i>	<ul style="list-style-type: none"> <li>• Plug-in point installation kit (Order No. 500 48140)</li> <li>• Plug-in point installation kit for Ex versions (Order No. 500 48144)</li> <li>• Post mounting set for field housing (Order No. 500 61357)</li> </ul>																
<i>Supplementary documentation</i>	<table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">System Information Procom DZL 363</td> <td>SI 023D/06/en</td> </tr> <tr> <td>Operating Manual Procom DZL 363</td> <td>BA 036D/06/en</td> </tr> <tr> <td>Ex documentation Procom DZL 363</td> <td>EX ... D/06/..</td> </tr> <tr> <td></td> <td>(various documentation)</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>System Information Promass</td> <td>SI 014D/06/en</td> </tr> <tr> <td>Technical Information Promass 63</td> <td>TI 030D/06/en</td> </tr> <tr> <td>Operating Manual Promass 63</td> <td>BA 014D/06/en</td> </tr> </table>	System Information Procom DZL 363	SI 023D/06/en	Operating Manual Procom DZL 363	BA 036D/06/en	Ex documentation Procom DZL 363	EX ... D/06/..		(various documentation)			System Information Promass	SI 014D/06/en	Technical Information Promass 63	TI 030D/06/en	Operating Manual Promass 63	BA 014D/06/en
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<b>Other standards and guidelines</b>																	
<p>EN 60529 Degrees of protection provided by enclosures (IP Code)</p> <p>EN 61010 Protection Measures for Electronic Equipment for Measurement, Control, Regulation and Laboratory Procedures</p> <p>EN 50081 Part 1 and 2 (interference emission)</p> <p>EN 50082 Part 1 and 2 (interference immunity)</p> <p>NAMUR Association of Standards for Measurement and Control in the Chemical Industry</p>																	

### Approvals

- 0 For use in non-hazardous area
- 1 VDE 0165 cert. of conformity Zone 2
- 3 CENELEC: [Ex ib] IIC / IIB (not for DoS connection)
- 5 FM: NI / I / 2 / ABCD
- 6 FM: NI / I / 2 / ABCD; AIS / I / II / III / 1 / ABCDEFG (not for DoS connection)
- A CSA: non-incendive Cl I Div. 2
- B CSA: non-incendive Cl I Div. 2; [Ex ia] (not for DoS connection)
- F SEV: [Ex ib] IIC / IIB (not for DoS connection)
- 9 other

### Promass Connection

- 0 Two-wire connection, data only
- 5 DoS two-wire connection, data incl. power supply for Promass 63
- 9 other

### Power supply

- 1 85...253 V, 50/60 Hz power supply
- 2 20...55 V AC, 20...62 V DC power supply
- 9 other

### Housing

- R0 19" rack unit (21 TE)
- F1 Field housing IP 65, PG 13.5 glands (not for FM and CSA)
- F2 Field housing IP 65, M20 entries (not for FM and CSA)
- F3 Field housing NEMA 4X, NPT 1/2" entries
- F4 Field housing IP 65, G 1/2" entries (not for FM and CSA)
- P1 Panelmount housing, soldering lugs on connecting strips
- P2 Panelmount housing, terminal screws on connecting strips
- 99 other

### Digital communication

- 1 Rackbus / Rackbus RS 485 or HART protocol
- 9 other

### Version

- 1 Basic version for mass flow, density and temperature measurement with batching and density functions
- 9 other

DZL 363-										
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← Order code  
 For the various combination possibilities of  
 Procom DZL 363 with Promass 63 → see page 3

### Subject to modification

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