

DEUTA

Indicating Units





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»DEUTA indicator units

Product highlights at a glance!«

Forward-looking technology

Everything from one source

Consultation, development, layout and selection of components, fitting, testing and production: DEUTA controls the entire process chain from production to qualification and worldwide support.

Platform concept

Many possibilities for individualisation with just a few components and plug connections, we have indicating units compatible in terms of installation and function available at any time.

Longevity

High-quality components and processes lead to high MTBF values and low life-cycle costs.

Obsolescence management

Follow-up concepts are already considered during the design phase. This ensures the availability of the indicating units across the entire life cycle. New indicating units are compatible to the predecessors in form, fitting accuracy and function.

- **Holistic:** Deuta controls the entire process chain for your individual indicating units.
- **Flexible:** Moving coil instruments
- **Compatible:** Form-fit-function
- **Rugged:** Regarding extreme environmental conditions
- **High:** The MTBF values

Economic efficiency

Modular concept

Longevity

Obsolescence management

Product Overview



ENG 6, 8/9, 10/9, 13/9

- Controlled either with voltage, currents or PWM signal
- Available with LED lighting



EZG10/9, EZG13/9

- with summation counter
- Controlled either with voltage, currents or PWM signal
- Available with LED lighting



EQG 9/9, EQG 14/9

- Controlled either with voltage, currents or PWM signal
- Available with LED lighting



EGS 3/9 a, EGS 3/9 az

- Controlled either with voltage, currents or PWM signal
- Available with LED lighting



EGS 5/9

- Controlled either with voltage, currents or PWM signal
- Available with LED lighting



EGS 10/9

- Controlled either with voltage, currents or PWM signal
- Available with LED lighting



»DEUTA analogue panel meters -
ENG indicating units - a round affair for more safety!«

Flexible control

The round indicating units **ENG 6** to **ENG 13** can be controlled either with voltages (AC, DC), currents (DC) or a PWM signal. Devices with current input can also be controlled with 4-20 mA.

Choice

Indicating units with 4...20 mA current input each have a “mechanical” and an “electrical” zero point (life zero). They are available either with flat connectors or D-Sub.

- ENG 6, ENG 8/9, ENG 10/9, ENG13/9**
- Controlled either with voltage, currents or PWM signal
 - Available with LED lighting

ENG 6 ENG 8/9 ENG 10/9 ENG13/9

Feature/Specification	
Panel cutout	ENG 6: Ø 61 ^{+0.5} mm ENG 8/9: Ø 81 ^{+0.5} mm ENG 10/9: Ø 101 ^{+0.5} mm ENG 13/9: Ø 131 ^{+0.5} mm
Installation depth	ENG 6: approx. 80 mm ENG 8/9: approx. 90 mm ENG 10/9: approx. 90 mm ENG 13/9: approx. 90 mm
Weight	ENG 6: approx. 0.3 kg ENG 8/9: approx. 0.5 kg ENG 10/9: approx. 0.6 kg ENG 13/9: approx. 0.8 kg
Mounting	Clamping yoke / clamp
Installation position	0-90-180°
Degree of protection front face	IP53
Degree of protection plug	IP40
Connection	6.3 x 0.8 DIN 46244 / D-Sub
Internal scale illumination	LED
External scale illumination	For devices without internal lighting possible via light slits
Input signals	AC, DC, PWM
Data for moving coil device	e.g. 20 mA, 1.5 mA ¹⁾
Load resistance	< 20 ohm at 20 mA meas.res.
Pointer deflection	240°
Accuracy class	ENG 6: 1,5 ENG 8/9, ENG 10/9, ENG13/9: 1,5; 1 ²⁾
Temperature range	-25°C to +70°C
Test voltage	1000 V _{eff} , 50 Hz, 1 min
Vibration testing	EN61373 cat1, class: B
Device definition	EN60051, EN50155
Conformity	CE
Housing	Sheet steel
Additional indicator	Individual versions with mileage recorder

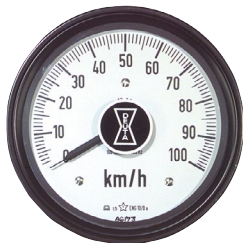
¹⁾ others upon request
²⁾ at extra charge



ENG 6



ENG 8/9



ENG 10/9



ENG 13/9



»DEUTA analogue panel meters –
EZG indicating units - with summation counter!«

Flexible control
Models EZG 10/9 and EZG 13/9 are identical in structure and function to indicators ENG 10/9 and EZG 13/9 but incorporate an additional mechanical 6 or 7-digit summation counter.

- EZG10/9 6, EZG13/9**
- with summation counter
 - Controlled either with voltage, currents or PWM signal
 - Available with LED lighting

EZG10/9 EZG13/9

Feature/Specification	
Panel cutout	EZG 10/9: Ø 101+0,5 mm EZG 13/9: Ø 131+0,5 mm
Installation depth	EZG 10/9: approx. 90 mm EZG 13/9: approx. 90 mm
Weight	EZG 10/9: approx. 0.6 kg EZG 13/9: approx. 0.8 kg
Mounting	Clamping yoke / clamp
Installation position	0-90-180°
Degree of protection front face	IP53
Degree of protection plug	IP40
Connection	6.3 x 0.8 DIN 46244 / D-Sub
Internal scale illumination	LED
External scale illumination	For devices without internal lighting possible via light slits
Input signals	AC, DC, PWM
Data for moving coil device	e.g. 20 mA, 1.5 mA ¹⁾
Load resistance	< 20 ohm at 20 mA meas.res.
Pointer deflection	240°
Accuracy class	1.5; 1 ²⁾
Temperature range	-25°C to +70°C
Test voltage	1000 V _{eff} 50 Hz, 1 min
Vibration testing	EN61373 cat:1, class: B
Device definition	EN60051, EN50155
Conformity	CE
Housing	Sheet steel
Additional indicator	With mileage counter

¹⁾ others upon request
²⁾ at extra charge



EZG 10/9



EZG 13/9



»DEUTA analogue panel meters –
EQG indicating units - square and good!«

Durable
The EQG../9 indicating units have a square housing.
They have the same features as the ENG series.
A long-life LED lighting is integrated in the housings.

They are available in versions with flat connectors or
with D-Sub.

- EQG 9/9, EQG 14/9
- Controlled either with voltage, currents or PWM signal
 - Available with LED lighting

EQG 9/9 EQG 14/9

Feature/Specification	
Panel cutout	EQG 9/9: 92 x 92 ^{+0,8} mm EQG 14/9: 138 x 138 ⁺¹ mm
Installation depth	approx. 90 mm
Weight	EQG 9/9: approx. 0.6 kg EQG 14/9: approx. 0.8 kg
Mounting	Tensioning elements at the housing
Installation position	0- 90-180°
Degree of protection front face	IP53
Degree of protection plug	IP40
Connection	6.3 x 0.8 DIN 46244 / D-Sub
Internal scale illumination	with LED
External scale illumination	-
Input signals	AC, DC, PWM
Data for measuring device	e.g. 20 mA, 1.5 mA ¹⁾
Load resistance	< 20 ohm at 20 mA meas.res.
Pointer deflection	240°
Accuracy class	1.5
Temperature range	-25°C bis +70°C
Test voltage	1000 V _{eff} 50 Hz, 1 min
Vibration testing	EN61373, cat: 1, class: B
Device definition	EN60051, EN50155
Conformity	CE
Housing	Aluminium

¹⁾ others upon request



EQG 9/9



EQG 14/9



»DEUTA analogue panel meters -
Double indicating units EGS -
independent indicating units for reference and actual values«

Doubly safe

The indicating units have two independently operating moving coil instruments whose inputs can be adapted to current, voltage (AC/DC) or PWM signals.

Versions with current inputs of 4-20 mA make make it easier to recognise malfunctions thanks to the mechanical and electrical zero point. The pointer will be below the zero position in case of errors in the current loop.

- GS 3/9 a, EGS 3/9 az**
- Controlled either with voltage, currents or PWM signal
 - Available with LED lighting

EGS 3/9 a EGS 3/9 az

Feature/Specification	
Panel cutout	Ø 131 ^{+0,5} mm
Installation depth	approx. 110 mm
Weight	approx. 1 kg
Mounting	Clamp
Installation position	0-90-180°
Degree of protection front	IP53
Degree of protection plug	IP40
Connection	6.3 x 0.8 DIN 46224
Internal scale illumination	2 x 2W Ba7s
External scale illumination	through light slits
Input signal	AC, DC
Data for measuring device	e.g. 20 mA, 1.5 mA ¹⁾
Load resistance	< 20 ohm at 20 mA meas.res.
Pointer deflection	240°
Accuracy class	1.5, 1 ²⁾
Temperature range	-25°C bis +70°C
Test voltage	1000 V _{eff} , 50 Hz, 1 min
Vibration testing	EN61373, cat: 1, class: B
Device definition	EN60051, EN50155
Conformity	CE
Housing	Sheet steel
Additional indicator	EGS 3/9 az: Counter 7-digit
Supply	EGS 3/9 az: Counter 24 V DC ± 30 %, P = 250 mW
Input signal	EGS 3/9 az: f _{max} 12 Hz, pulse dur. min. 20ms

¹⁾ others upon request
²⁾ at extra charge



EGS 3/9 a



EGS 3/9 az



»DEUTA analogue panel meters -
Double indicating units EGS -
independent indicating units for reference and actual values«

Doubly safe
EGS 3/9 indicating units have two independently
operating moving coil instruments whose inputs can be
adapted to current, voltage (AC/DC) or PWM signals.

- EGS 5/9
- Controlled either with voltage, currents or PWM signal
 - Available with LED lighting

EGS 5/9

Feature / Specification	
Panel cutout	Ø 101 ^{+0,5} mm
Installation depth	approx. 98 mm
Weight	approx. 1 kg
Mounting	Clamp
Installation position	0-90-180°
Degree of protection front	IP53
Degree of protection plug	IP40
Connection	6.3 x 0.8 DIN 46244
Internal scale illumination	with LED
External scale illumination	through light slits
Input signal	AC, DC, PWM
Data for moving coil device	0-20 mA, 1.5 mA ¹⁾
Load resistance	< 20 ohm at 20 mA meas.res.
Pointer deflection	240°
Accuracy class	1.5, 1 ²⁾
Temperature range	-25°C bis +70°C
Test voltage	1000 V _{eff} , 50 Hz, 1 min
Vibration testing	EN61373, cat: 1, class: B
Device definition	EN60051, EN50155
Conformity	CE
Housing	Sheet steel

¹⁾ others upon request
²⁾ at extra charge



EGS 5/9



»DEUTA analogue panel meters -
Double indicating unit EGS - doubly safe«

Doubly safe
The indicating units have two independently operating moving coil instruments whose inputs can be adapted to current, voltage (AC/DC) or PWM signals.

Versions with current inputs of 4-20 mA make it easier to recognise malfunctions thanks to the mechanical and electrical zero point. The pointer will be below the zero position in case of errors in the current loop.

EGS 10/9

- Controlled either with voltage, currents or PWM signal
- Available with LED lighting

EGS 10/9

Feature/Specification	
Panel cutout	Ø 92 ^{+0,8} x 92 ^{+0,8} mm
Installation depth	approx. 108 mm
Weight	approx. 1 kg
Mounting	Tensioning element at the housing
Installation position	0-90-180°
Degree of protection front	IP53
Degree of protection plug	IP40
Connection	6.3 x 0,8 DIN 46224
Internal scale illumination	with LED
Input signal	AC, DC, PWM
Data for moving coil device	0-20 mA, 1.5 mA ¹⁾
Load resistance	< 20 Ohm bei 20mA Messw.
Pointer deflection	240°
Accuracy class	1.5
Temperature range	-25°C bis +70°C
Test voltage	1000 V _{eff} 50 Hz, 1 min
Vibration testing	EN61373, cat. 1, class: B
Device definition	EN60051, EN50155
Conformity	CE
Housing	Aluminium

¹⁾ others upon request



EGS 10/9

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