

GLÖTZL Baumeßtechnik

ELECTRIC DISPLACEMENT TRANSDUCER with resistivity element

Type: GWW 30/. . .
Art. No.: 65.01

The displacement transducer, type GWW, is encapsulated in an eloxed aluminium casing and is equipped with a plug connector of protection class IP 67 (splash-proof).

The material of the tracer tip is chromium-plated brass. The tracer finger is of rust- and acid-proof material and led in a brass bushing with an additional ring-type oil sealing.

The complete displacement transducer is constructed as splash-proof model and also partly splash water- and submerging-tight.

For fixing at a structural part the transducer is equipped with a thread M 18 * 1.5.

By means of a screw socket (see figure) the displacement transducer is directly screwed at the measuring head of the plastic rod extensometer for electric remote control.

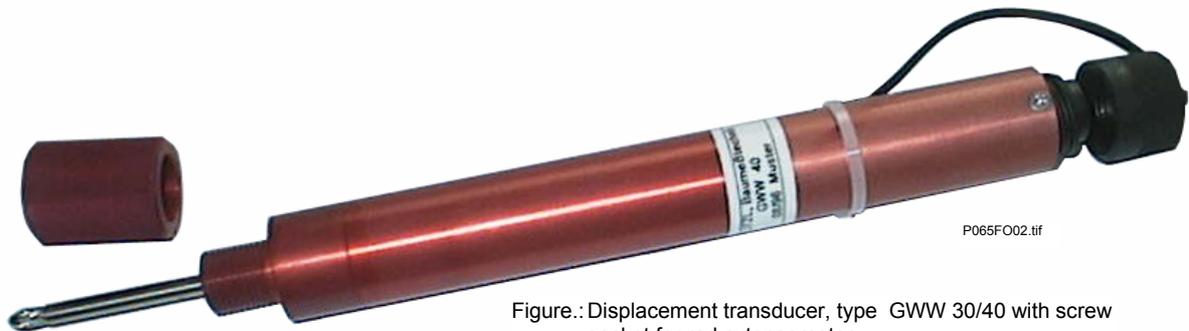


Figure.: Displacement transducer, type GWW 30/40 with screw socket for rod extensometer

Function:

The displacement transducer consists of a conductive plastic resistivity element with shiftable scanning contact. The element is operating as an unloaded potential divider and is converting a displacement into a proportional voltage. The signal is converted and amplified into a standardized signal by an electronic circuit. It is fed to the output for remote transmission or analog recording. The power supply can be varied in a large range without influencing the measuring value as voltage references are internally installed.

The displacement transducer GWW has a voltage and current output as standard. When placing an order, please indicate which output has to be calibrated exactly. The second output is automatically existing with an accuracy of approx. 1% and can be used if required. The displacement transducer GWW is constructed in a 2-conductors technique and therefore can only be used as transducer with current signal.

The type GWW has a bipolar output (± 2 V, ± 20 mA, 4-conductors).

The type GWW I has the measuring signal 4-20 mA (2-conductors circuit).

Accessories:

- Readout units (mains and battery operated)
- Manual change-over manifolds
- Manual change-over manifolds with digital display
- Automatic measuring devices (mains and battery operated)
- Special models on clients' specification

Options:

- Measuring lengths up to 1000 mm
- Digital output RS 485
- Linearity 0.1% f.s.
- Temperature protocol
- Casings as special models
- Current-output signal on clients' specification

Technical data:	GWW 30/40	GWW 30/100	GWW 30/40 I	GWW 30/100 I
Measuring range [mm]	±20	±50	40	100
Linearity [%]	0.15			
Resolution [mm]	0.01 (0.001 tendency in one direction)			
Temperature coefficient [% / °C f.s.]	< 0.01	< 0.01	< 0.01	< 0.01
Supply [V]	20 up to 40 V DC		15 up to 30 V	
Current consumption [mA]	max. 10 (+20)		4 up to 20	
Output signal full meas. length [V]	±2 V	±2 V	---	---
Burden [KΩ min.]	100	100	---	---
Output signal full meas. length [mA]	±20	±20	4 up to 20	4 up to 20
Burden [Ω max.]	(U _s - 9 V) : 20 mA			
Operating temperature range [°C]	-15 °C up to +70 °C			
Storage temperature range [°C]	-15 °C up to +125 °C			

Dimensions:	GWW 30/40	GWW 30/100	GWW 30/40 I	GWW 30/100 I
Casing Ø [mm]	29	29	29	29
Casing length [mm]	245	335	245	335
Total length incl. trancer finger [mm]	295	445	295	445
Installation length incl. plug [mm]	350	450	350	450

Pin assignment:	GWW 40	GWW 100	GWW 40 I	GWW 100 I
Pin 1	+Meas. value [mA]		+Supply	
Pin 2	+Supply [V]		-Supply = meas. value	
Pin 3	+Meas. value [V]			
Pin 4	-Meas. value [V]			
Pin 5	-Supply [V]			
Pin 6				
Pin 7	-Meas. value [mA]			