

GLÖTZL Baumeßtechnik

ELECTRIC DISPLACEMENT TRANSDUCER

with resistivity element, passive

Type: GWD 30/35/ . . .

Art. No.: 65.10

The displacement transducer GWD 35 consists of a conductive plastic linear potentiometer on an aluminium substrate. A scanning device connected with the tracer finger is scanning the measuring value. The connection to the displacement transducer is done in 5-connectors technics.



Electric Displacement Transducer Type GWD 35/400

The displacement transducers of series GWD 35 are designed for the installation in boreholes or other inaccessible application fields. Therefore, the installation of electronic measuring amplifiers was intentionally not foreseen. By use of aluminium substrates in the aluminium casing no danger exists for distorting the measuring element also in case of higher temperatures effects.

As standard version, connection is done by Teflon wires infused in the displacement transducer. As option, also plug and socket connections are available. Evaluation electronics for processing of the measuring values 0 – 10 V, 0 – 20 mA, 4 – 20 mA a.s.o. are available in different casing types on request of client.

All casing connections are sealed with O-rings against environmental influences. At the tracer finger, the casing is protected against penetration of dust and liquids by a radial gland ring.

Technical data of standard types

Type:	GWD 30/100	GWD 35/250	GWD 35/400	Unit
Meas. length:	100	250	400	mm
Casing length:	225	375	525	mm

Casing	ø35 mm	Resolution/	
Tracer finger	ø8 mm	Reproducibility	0.01 mm
Tracer finger connection thread	M4 inner*	Scanning current	max. 10 mA
Displ. transducer connection thread	M28x15*	Max. operating voltage	60 V
Potentiometer resistance	50 kOhm	Insulation resistance	>1000 MOhm, 500
Resistance tolerance	± 10%	Vss	
Linearity<	± 0.2%	Disruptive strength	100 V _{eff} 50 Hz
		Temperature range	-40 °C up to +125 °C

* Further connection possibilities available on request

To obtain measuring values with only a very small distortion, the measuring value should be scanned high impedantly. The supply voltage of the potentiometer should not exceed 10 V.

Subject to technical alterations