

# GLÖTZL Baumeßtechnik

## ELECTRIC DISPLACEMENT TRANSDUCER

with resistivity element, passive

**Type: GWD 22/ . . .**

**Art. No.: 65.10**

The displacement transducer GWD 22 consists of a conductive plastic linear potentiometer on an stainless steel substrate. A scanning device connected with the tracer finger is scanning the measuring value. The connection of the displacement transducer is done in 3- or 5-conductors technics, according to requirement. The casing is constructed of stainless steel tube V4A.



Figure: Displacement transducer, type: GWD 22/50

The displacement transducers of series GWD 22 are designed for the installation in boreholes or other inaccessible application fields. Therefore, the installation of electronic measuring amplifiers has intentionally not been foreseen. As standard version, connection is done by connection cables 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

Technical data	GWD 22 / 50	GWD 22 / 100
Voltage supply	1 - 60 V DC	1 - 60 V DC
Temperature range	-40 up to +80 (125) °C	-40 up to +80 (125) °C
Scanning current	max. 10 mA	max. 10 mA
Potentiometer resistance	50 kOhm	50 kOhm
Resistance tolerance	±10%	±10%
Insulation resistance	> 1000 MOhm, 500Vss	> 1000 MOhm, 500Vss
Disruptive strength	500 V <sub>eff</sub> 50Hz	500 V <sub>eff</sub> 50Hz
Linearity	0.1%	0.1%
Measuring range	50 mm	100 mm
Resolution	0.01 mm	0.01 mm
Casing Ø	22 mm	22 mm
Overall length	287 mm	417 mm
Casing length with cable elongation without tracer finger	190 mm	270 mm
Installation length with cable elongation	230 mm	310 mm

Further connection types 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.

**Accessories:** - Battery-operated meas. devices  
- Change-over manifolds with readout units  
- Special instruments on clients' request  
- Change-over manifolds  
- Automatic measuring devices

Subject to technical alterations

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