



# OP-500

## Meter reading optical probe OP-500 with TTL voltage level (0 V to 3.3 V)

The Optical Probe OP-500 with serial TTL port is an interface that communicates with a peripheral device such as an electric meter, water meter, heat meter or gas meter via infrared. Any other device that supports the European standard IEC 62056-21 (IEC 1107) is compatible with this product.

The Optical Probe OP-500 with serial TTL port and a four-wire cable with no connector is suitable if it's going to be attached directly to a microcontroller.

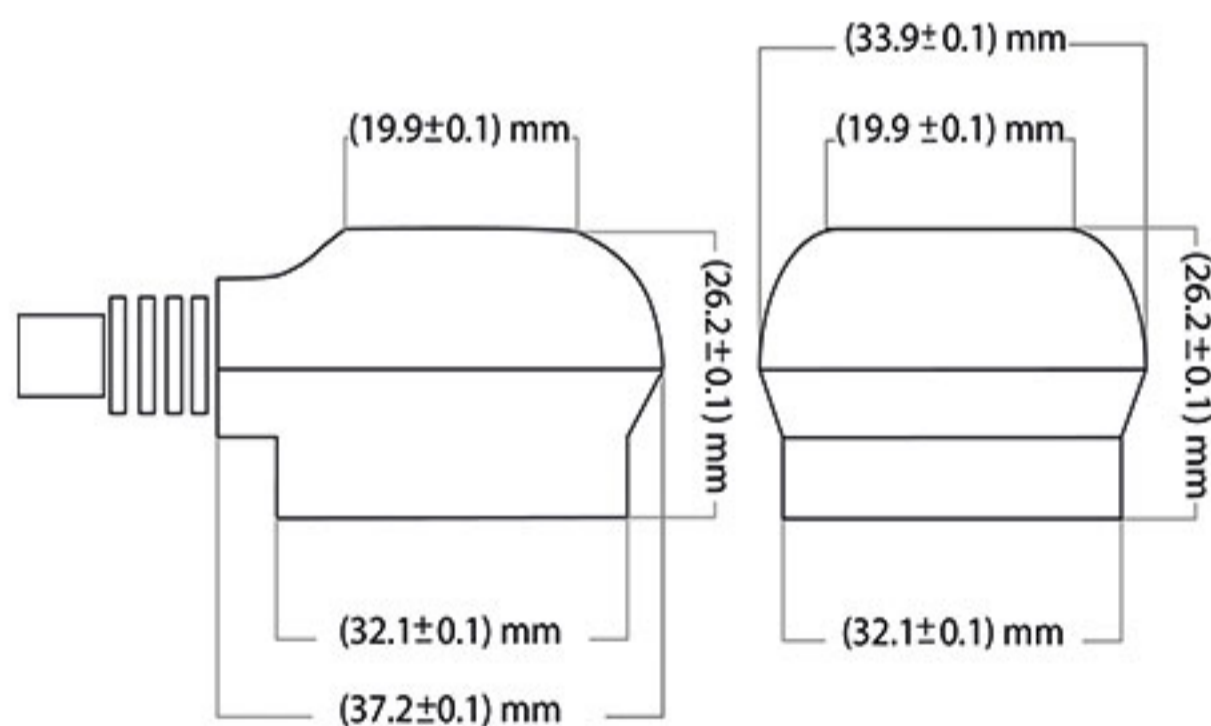
Specific adjustments is possible by order.

### Mechanical description of the optical probe OP-500

- Connector: Without Connector
- infrared filter against external light influences
- Dimensions (Ø x H): approx. 32 x 26 mm
- Magnetic holding force: > 15 N
- Casing material : ABS
- Cable: length 2m, mØ 4,5 mm, four-wire cable(LAPP KABEL GERMANY)
- Weight: approx. 70 gr.

### Electronic description of the optical probe OP-500

- Standard: IEC 62056-21 (IEC 1107)
- Power supply: 3.5 V to 5.5 V
- Consumed current: approx. 10 mA
- Signal level: TTL voltage level (0 V to 3.3 V)
- Data baud rate : 19200 bit/S
- Wavelength: 880nm
- Echofilter: yes



**GERMAN METERING GmbH**

Reutenweg 65,  
60323 Frankfurt am Main, Germany  
Telephone: +49 (0)69 / 77062206, Fax: +49 (0)69 / 77062226  
www.german-metering.com

Pin	Signal	Color	Description
1	RXD	□	TTL Receive Data
2	TXD	■	TTL Transmit Data
3	VCC	■	3.5 to 5.5 Volt
4	GND	■	Ground

