

Optical probes **AMOS-USB** and **AMOS-232P** are used for local serial communication (readout, parametrizing and setting) using infrared communication between static smart electricity meters (meters or other equipment) with optical interface on one side and a PC or HHU (Hand-Held Units) on the other. The probe parameters fulfill all technical requirements on data transmission in accordance with the standard STN EN 62056-21 (previous edition STN EN 61107) and the set of users' requirements DLMS/COSEM.

The probes are designed as cylindrical plastic heads equipped with permanent magnet, intended for attachment to the electricity measuring equipment with ferromagnetic ring around the data transmitting paths. The probe is fitted with two-color LED that indicates communication. Green indicates the direction of the PC-electricity meter (parameterization), red: electricity meter-PC (readout).

The probes are connected by flexible cable to the USB connector or CANNON 9 (RS 232) connector. The probe performs conversion of the optical signals into signals suitable for USB respectively RS 232 ports.

The probe is supplied from the connected PC or HHU through the appropriate port.



**AMOS-USB**



**AMOS-232P**

**Highlights**

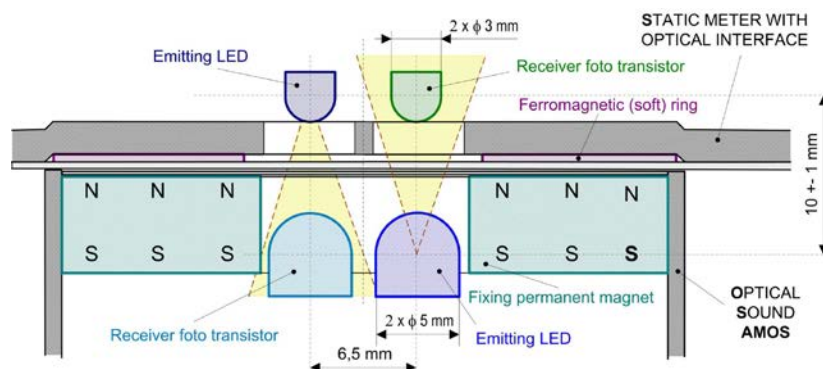
- The probes are intended for both-way serial communication with the meter via infrared light;
- For USB and RS 232 ports;
- The probes are attached to the interface by permanent magnet.

**Technical data**

<b>Communication equipment</b>	PC (notebook, HHU - Hand-Held Units)
<b>Transmission speed [Bd]</b>	300, 600, 1200, 2 400, 4 800, 9 600, 19 200
<b>Transmission wave length [nm]</b>	800 to 1000
<b>Supply</b>	
- AMOS-USB (N)*	5 V, from interface USB of PC/HHU
- AMOS-232P	from interface RS 232 of PC/HHU (powerful enough internal power )
<b>Synchronization</b>	according to IEC protocol (IEC 62056-21)
<b>Working temperature range</b>	- 20 °C to + 50 °C
<b>PC interface</b>	
- AMOS-USB (N)*	USB 2.0
- AMOS-232P	RS 232
<b>Weight [kg]</b>	0,1

(N)\* Version with a stronger magnet

**Arrangement of the probe optical sensor with the meter optical interface**



**Ordering data** - type and version marking, number of units.