

# SLUDGE BLANKET SENSOR



## MULTI

- Measures both depth and suspended solids
- Gives a profile of the sludge
- Flexible – choice of portable or stationary central units
- Optical NIR light transmission
- High quality stainless steel execution
- Long term stability and long maintenance intervals

## BLANKO

The Blanko is a portable optical suspended solids meter designed to measure sludge blanket depth and suspended solids in clarifiers, thickeners, aeration basins, etc in water and wastewater plants, as well in other facilities. It is possible to display measured values as text or as a graphic image of the sludge profile. Two different alarm levels for the sludge blanket may be set to indicate fluff and sludge blanket

levels. These may be displayed next to the graphic sludge profile. It is able to store up to 250 measurements as a graphic profile, each with information about time, date, location, that may be named by the user. Each profile also contains data about blanket and fluff depths that applied for the specific measurement.

| TECHNICAL SPECIFICATIONS        |  |
|---------------------------------|--|
| Function                        | Sludge Concentration and Depth                                 |
| Measuring principle             | Optical light transmission                                     |
| Wave length                     | NIR 850 nm   |
| Measuring range                 | Max – 20,000 mg/l (ppm)  |
| Accuracy suspended solids       | 1% FS (full scale)   |
| Repeatability                   | < 2% of Measured Value   |
| Type of Measurement             | Continuous with Profile  |
| Number of Detectable Levels     | Two (fluff and sludge blanket)                                 |
| Measuring units                 | g/l, mg/l, %, ppm  |
| Depth units                     | cm, dm, m, in, ft  |
| Principle of Depth Measurement  | Pressure cell, absolute pressure                               |
| Accuracy Depth Measurement      | +/- 0,5% FS  |
| Altitude limitation             | Max 1400 m (optional 5000 m) 4,500 feet (optional 15,000 feet) |
| Maximum depth                   | 19 m (62 ft)   |
| Temperature Range - Liquid      | 0 – +50°C (+32 - 122°F)  |
| Sensor Body                     | Stainless Steel, BK7 Glass Windows                             |
| Cable                           | PUR, Shielded  |
| Cable Fitting                   | MatchClamp™  |
| Weight Sensor                   | 450g (1 lb)  |
| Weight Hand Held Unit w/ sensor | 1.4 kg (3.0 lb)  |
| Dimensions Sensor Body          | 145 mm x 32 mm Ø (5.7"x1.26"Ø)                                 |
| Cable Length                    | 8 m, 12 m (26 ft, 36 ft)                                       |
| Enclosure Sensor Body           | IP68 (NEMA 7)  |

## MULTI-SERIES

Blanko is one of the sensors in the Multi-series. Please note that this is a new range of sensors and central units which are not compatible with the classic X-range of Cerlic sensors. The Multi-series also includes sensors for suspended solids and dissolved oxygen. There are both a

portable and a stationary central unit to choose from. For the time being the Blanko is not compatible with the stationary central unit. The Multi-series is flexible and cost effective.

