

## Measured at the flow:

A versatile solution.

Flow monitors of the UBX series monitor the oil-filled cooling circuit according to the baffle plate principle: The force of the flow meets the baffle plate and/or paddle and moves it against the spring force. The deflection is transferred to the adjustable microswitch, which is hermetically sealed by a metal folding bellows. In case of a fault, a message is used and the overheated transformer switches off as a precaution.

The UBX series is distinguished by low pressure loss in a wide range of applications. Whether the application is mobile or stationary, when insensitivity to external influences is required, the UBX flow monitor is ideal for monitoring cooling circuits in:

- Traction transformers in rolling stock
- Transformers in wind power plants
- Transformers in CHP technology



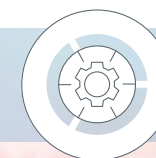
# HONSBERG

Member of GHM GROUP

## UBX flow monitors:

A cold look at cooling circuits.

INDUSTRIAL FLOW  
SENSORS



**NEW: LOW-TEMPERATURE  
RANGE DOWN TO  $-50^{\circ}\text{C}$**

## Contact information:

Our customer service.

For all questions relating to our UBX series and flow measurement in cooling and water circuits, our customer service contacts are ready to help you personally.

We look forward to your enquiry

+49 2191 9672-0

info@ghm-group.de

www.ghm-group.de/ubx

**GHM GROUP**  
Specialists by Competence.

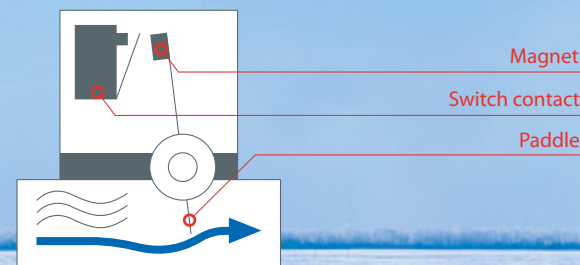
GHM Messtechnik GmbH | GHM GROUP – Honsberg  
Tenter Weg 2–8 | 42897 Remscheid | GERMANY



One monitor, numerous advantages. Even in rugged conditions.



### Baffle plate switch – functional principle



## A versatile solution: UBX flow monitors.

The requirements on oil-filled transformers increase. They must be cooled adequately for uninterrupted operation. With the UBX series, the Center of Competence Honsberg of GHM GROUP offers a flow monitor which monitors the cooling flow of low-viscous media and fulfils the prevalent standards of quality requirements. The devices are designed according to the baffle plate principle so that reliable function is guaranteed – no matter how extreme the conditions are.

**Functionally stable:** Flow monitors of the UBX series fulfil the low-temperature range down to  $-50\text{ }^{\circ}\text{C}$ .

**Durable and sealed:** The robust metal housing is sealed absolutely tight against dust, moisture and dirt.

**Flexible selection:** Easily adaptable with various process connections and the material (brass/stainless steel), the baffle plate (scoops/mono-paddle) and the micro-switch (gold/silver), you have freedom of choice.



IMMUNITY  
CLASS IK 09  
DIN EN 50102

DIN EN 60529  
IP65 / IP 67

FIRE PROTECTION  
REQUIREMENT  
DIN EN 45545-2



VIBRATION AND  
SHOCK REQUIREMENT  
DIN EN 61373

### Temperature range: guaranteed.

All components of the UBX series are designed for a guaranteed temperature range of  $-50\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$ . Therefore, they are ideal for use in water and cooling circuits in particularly **harsh conditions**. The **robust metal housing** has an absolutely tight seal and is protected from external influences, such as dust, dirt or moisture. First-class and maintenance-free production quality which pays off in the long-term – which is also proven by the microswitches designed for 100,000 switching cycles when used as intended.

You benefit from a custom solution which can be adapted easily with various process connections. Flexibly adaptable with free choice of baffle plate, housing material, micro-switch and a variable switching point of the paddle switch. And with assurance that it also runs smoothly in ice-cold conditions.

### Your benefits at a glance:

- Guaranteed low-temperature range down to  $-50\text{ }^{\circ}\text{C}$
- Functionally safe in climates with a harsh environment
- Moulded seal protects from moisture and dust
- Hermetic isolation from the flow chamber and functional part
- Simple adaptation with various process connections
- Freely configurable to a certain extent