

UHF-DVS-50

Ultra-High Frequency (UHF) Partial Discharge (PD) Drain Valve Sensor



- For oil-filled transformers
- Retrofit possible at straight opening oil valves with min. diameter 50 mm
- Standard flange plate: DN50 / DN80
- DN100 / DN150 flange plate and other variants available on request
- Bandwidth: 100 MHz ... 3000 MHz
- Integrated high-pass filter
- Antenna fully retractable into flange plate

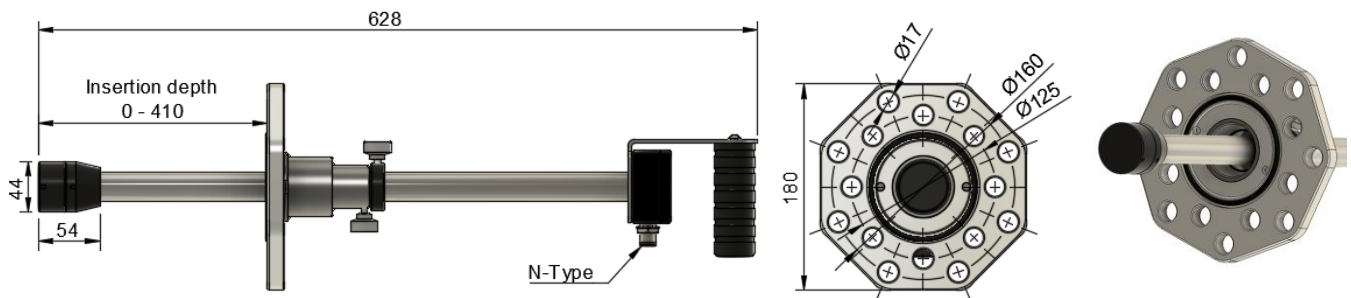
Technical Data

Bandwidth	measurement range: 100 MHz - 3000 MHz highest sensitivity: 300 MHz – 900 MHz
Oil pressure	5 bar (max.)
Oil temperature	120°C (max.)
Connection	Type N connector female
Dimensions (H x D)	628 mm x 180 mm
Antenna diameter	44 mm
Insertion depth of UHF antenna	0 mm ... 410 mm (laser scaled)
Weight	2.6 kg
IP protection class	IP 66
Operation temperature	-40°C ... +120°C
Storage temperature	-40°C ... +120°C
Maximum operating height	3000 m above sea level

Type Tests

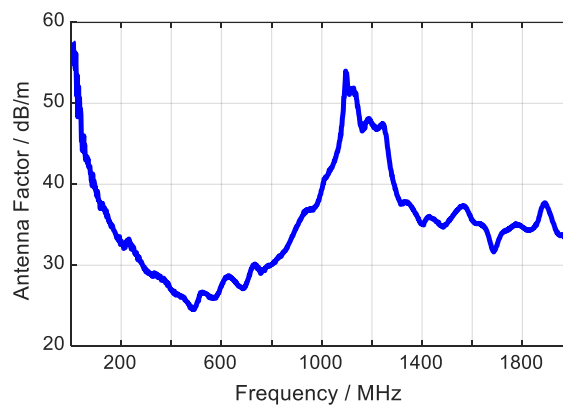
CE conformity	EMC, RoHS
EMC	EN IEC 61326-1 Immunity: EN IEC 61000-4-2 / EN IEC 61000-4-3 / EN IEC 61000-4-4 / EN IEC 61000-4-5 / EN IEC 61000-4-6
Environmental	Temperature ratings: EN IEC 60068-2-1 / EN IEC 60068-2-2 Mechanical ratings: EN IEC 60068-2-6 / EN IEC 60721-3-2 / EN IEC 60255-21-3 / IEC EN 6006-2-31 IP-Class Certification: ISO 20653

Dimensions



All dimensions in mm

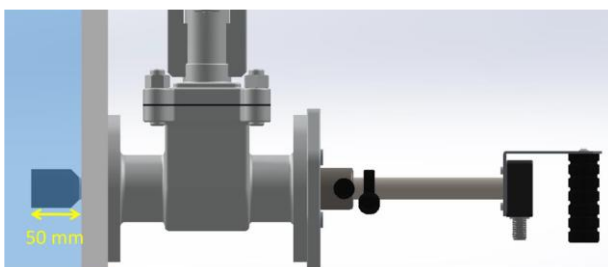
Sensitivity



Reference Sensitivity measured without oil valve.

The length and diameter of the oil valve have a significant influence on the sensitivity when installed in the transformer.

Installation



Sensor installation:

- Retrofit possible at inner valve diameter sizes from 50 mm
- Standard flange plate: DN50 and DN80
- Installation at transformer in service possible
- Integrated air-venting screws
- Recommended insertion depth: 50 mm

Available Accessories

- **Adaptions to other valve types:** Valves for installation need to be with straight duct and a minimum inner diameter of 50 mm is required.
- **Hard carrying cases:**
Cases in various configurations for the sensors

Scope of Delivery

UHF-DVS-50 Product No: BSSA000896

- UHF-DVS-50 Sensor
- Routine test protocol including factory calibration certificate
- Quick reference guide

Legal Information

A copy of the Declaration of Conformity, manual and other relevant documents are available by request from BSS Hochspannungstechnik GmbH: support@bss-hs.de

All information can be subject to error and change without notice.