

## Moisture and Temperature Measuring Instrument VZ230

### General information

Continuous on-line measurement of moisture in insulating oils

- Ball valve installation - no need to shut down the process
- Incorporates Vaisala HUMICAP® Sensor - excellent long-term stability
- Integrated data logging, with over four years of measured history
- LAN communication (RJ45 10/100Base-T)
- 2 additional ports for external sensors (not included) for 0..10VDC, 4..20mA or PT100
- 6 additional potential free contacts (relays) for setpoint or alarm communication
- Power supply 230VAC, 50/60Hz
- shock proofed housing with internal cooling fan (IP65 if closed, needs to be open for operation)



### Technical data built-in sensors

#### Water content measurement

Probe (1) for oil inlet	0 ... 1000 ppm (accuracy $\pm 0.03$ )
Probe (2) for oil outlet	0 ... 100 ppm (accuracy $\pm 0.03$ )
Sensor type	Vaisala HUMICAP®

#### Operating environment (for probes)

Operating temperature	-40 ... +180 °C (-40 ... +356 °F)
Operating pressure	0 ... 40 bar (0 ... 580 psia)

#### Mechanics

Probe cable length	Probe cable lengths 2 m, 5 m or 10 m
Housing material (probes)	G-AISI 10 Mg (DIN 1725)

## Technical data for additional sensors (not included)

### Power supply voltage/current sensors

Operating voltage	24 VDC
Power consumption (max)	250 mA
Analogue input range	0..1VDC, 0..10VDC, 0.20mA, 4..20mA

### Sensor types

Pt100 (EN 60751)	2/3-wire, -200 to +100°C (accuracy 0.5°C)
	2/3-wire, -200 to +850°C (accuracy 0.8°C)

## Technical data for digital outputs

Connectors	7-pole-plug (included)
Relais contacts (6pc)	Changeover (SPDT), 3A, 230VAC

## Technical data for Ethernet connection

Quantity	1
Protocols	TCP, IP, HTTP, DHCP, SMTP, MODbusTCP
Baud rate	10Mbits/sec, 100Mbits/sec
Connector	RJ45
Data format	HTML

## Technical data for digital outputs

Connectors	7-pole-plug (included)
Relais contacts (6pc)	Changeover (SPDT), 3A, 230VAC

## Technical data for screen (display)

Resolution	320x240 pixels / 5.5"
Type/number of colors	TFT color screen / 256 colors
Brightness settings	Adjustable on instrument
Screen saver (switch-off display)	waiting time (adjustable)

