CDS III

The electronic display unit CDS III is used for the continuous monitoring of VISCOTHERM hydraulic scroll drives „ROTODIFF" on centrifuges. This electronic display unit enables the actual operational values of bowl speed, differential speed and system pressure (scroll torque) to be measured and optically displayed. Also displayed are pre-set values if exceeded. Malfunctions are localized and displayed as well. A powerful microprocessor is integrated in the CDS unit, which allows precise-measurements (digital signal processing). All measured values, the operating machine status and fault messages are displayed in plain text.

Display of:

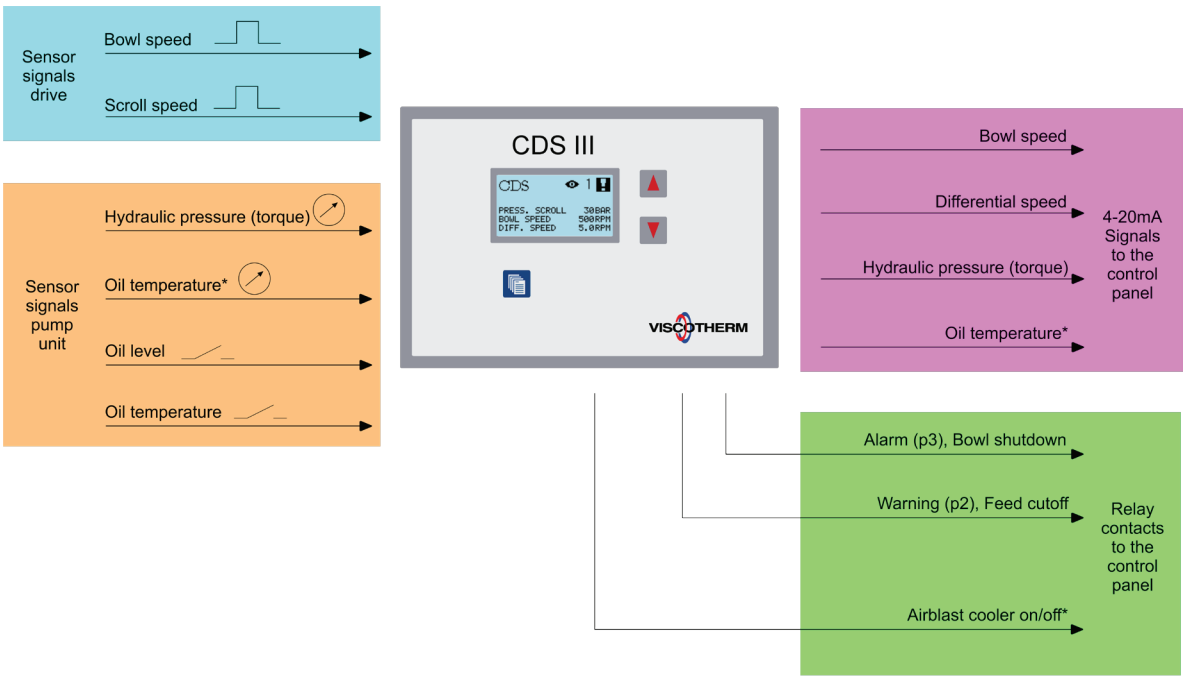
- Bowl speed (n_{Bowl}) [rpm]
- Differential or scroll speed (n_{Scroll}) [rpm]
- Hydraulic pressure (torque) (P_{Scroll}) [bar]
- Oil temperature * [°C]
- Pressure cut-off p2 (pre-alarm) [bar] (feed pump off)
- Pressure cut-off p3 (alarm) [bar] (bowl drive off)
- Error message

Language selection: German, English, French, Italian, Portuguese, Spanish, Dutch, Norwegian

Communication:

- Analog signals (4-20 mA)
  - ⇐ Bowl speed
  - ⇐ Differential speed
  - ⇐ Hydraulic pressure (torque)
  - ⇐ Oil temperature *
- Relais contacts
  - ⇐ Adjustable pressure cut-off p2
  - ⇐ Adjustable pressure cut-off p3
  - ⇐ Oil air cooler switch

* depending on the configuration of the pump unit



*with optional temperature sensor

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Technical data:

Dimension unit (w×h×d):	190×130×130 mm (7.48”×5.12”×5.12”)
Panel cut-out (w×h):	174×114 mm (6.85”×4.67”)
Weight:	1 kg
Protection class:	IP 20
Temperature range:	10-40 °C
Voltage range:	90-250 V
Power loss:	60 W
Transient emmission:	Class B to EN 55022 (150 kHz to 30 MHz)
Conducted immunity (EMC):	± 2 kV nach IEC 1000-4-4 (Burst) ± 1 kV nach IEC 1000-4-5 (µs-puls), wire to wire ± 2 kV nach IEC 1000-4-5 (µs-puls), wire to wire)
Contact discharge:	± 6 kV nach IEC 1000-4-2 (ESD), contact discharge

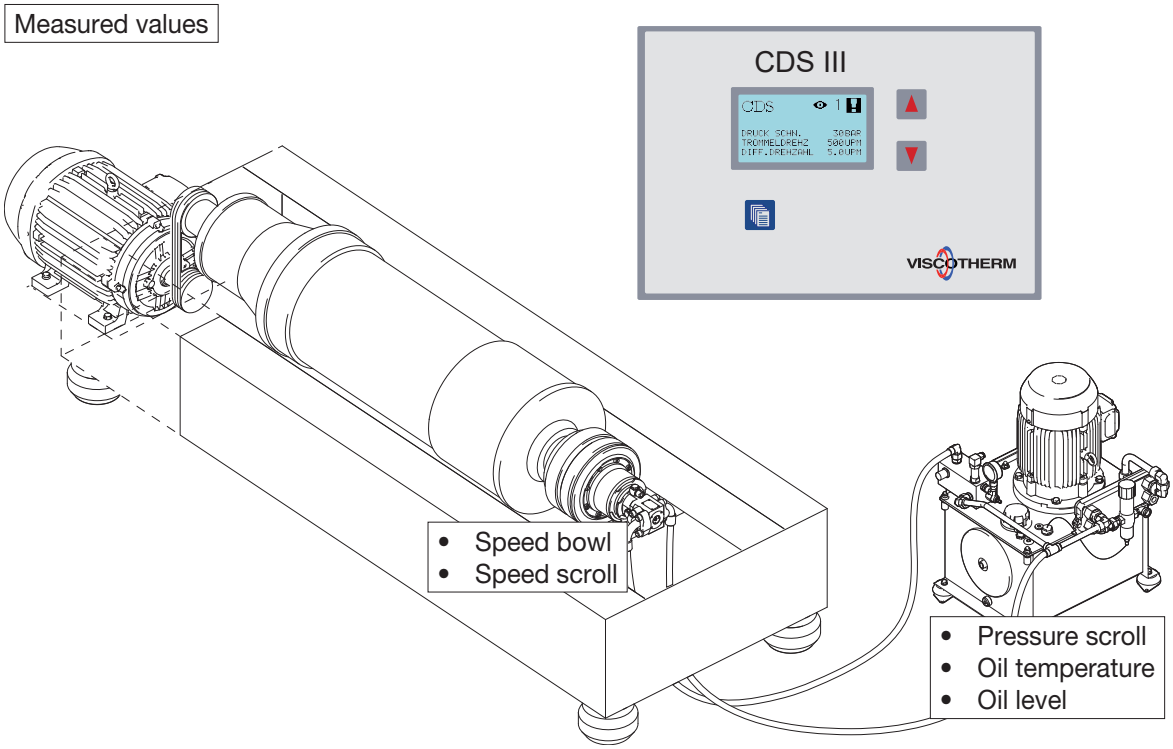
Interface:

Bowl speed	4-20 mA correspond 0-5000 rpm
Differential speed	4-20 mA correspond 0-50 rpm
Hydraulic pressure	4-20 mA correspond 0-250 bar
Oil temperature *	4-20 mA correspond 0-100 °C

* depending on the configuration of the pump unit

System values

Measured values



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