

Feed pump "OFF"

Bowl drive "OFF"

CDS

This electronic instrument is used for the continuous monitoring of VISCOTHERM hydraulic scroll drives "ROTODIFF" on centrifuges. The electronic display system CDS 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 in rpm

Differential- or scroll speed in rpm Hydraulic pressure (torque) in bar

Plain text display of: Cut-off pressure p2 in bar

Cut-off pressure p3 in bar

Stationary bowl

Indication of faulty situation

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

Norwegian, Italian

Interface: 4-20 mA signals for:

- Bowl speed

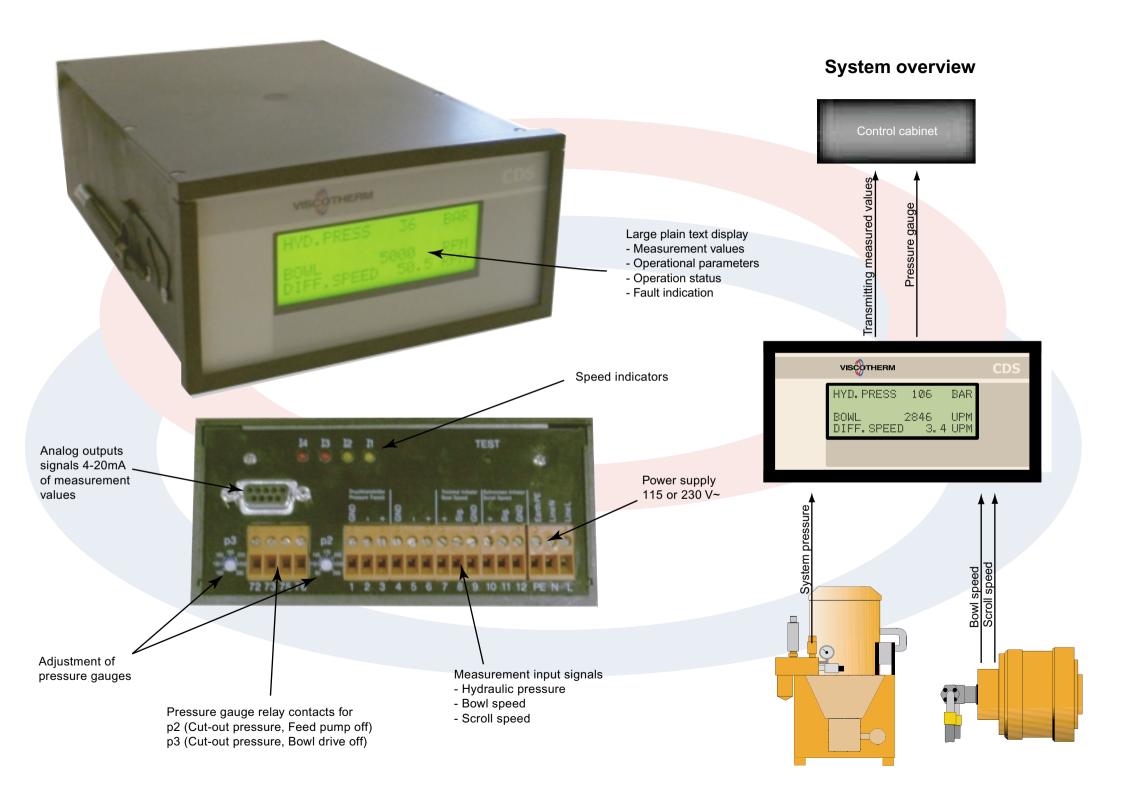
- Differential speed

- Hydraulic pressure (torque)

Relais contacts for:

Adjustable cut-off pressure p2

- Adjustable cut-off pressure p3



Technical Data:

Dimensions (W x H x D): 144 x 72 x 201 mm (5.66" x 2,83" x 7.91")

Cut-out dimensions (W x H): 139 x 66 mm (5.47" x 2.59")

Protection class: IP54 (NEMA4) front

IP40 (NEMA1) back

Temperature range: 10 - 40 °C

Power supply: 115 V-AC or 230 V-AC

Input frequency: 48 - 62 Hz

Power consumption: 50 W

Weight: 1 kg

EMC: Emitted interference: Class B to EN55022 (corresponds to CISPR 22)

Conducted interference on voltage supply lines:

±2kV to IEC 1000-4-4 burst

±1kV to IEC 1000-4-5 μs-pulse, line to line ±2kV to IEC 1000-4-5 μs-pulse, line to earth

Immunity to interferance on signal lines:

±2kV to IEC 1000<mark>-4-4 b</mark>urst

Immunity to discarge:

±6kV to IEC 1000-4-2 (ESD), contact discharge

Attachment: Screw terminals

Fuses: 115 V = 200 mA slow blow

230 V = 100 mA slow blow

Interface: Bowl speed

4-20 mA correspond 0 to 5000 rpm

Differential speed

4-20mA correspond 0 to 50 rpm

Hydraulic pressure

4-20mA correspond 0 to 250 bar

Viscotherm AG

Neuhaus

8132 Hinteregg / Zürich

Switzerland

Tel.: +41 1 986 28 00 Fax: +41 1 986 28 28 Email: info@viscotherm.ch