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Survey

CVC 410



Electronic Display and Control Unit

This electronic instrument is used for the continuous monitoring of VISCOTHERM hydraulic scroll drives on centrifuges. The Display and Control Unit CVC 410 works with an integrated high-performance microprocessor which insures absolute precise measuring and regulation (digital signal processing). All important operation parameters can directly be adjusted on the CVC Unit. Due to the software supported universal high level valve modulation various pump types can be triggered without any hardware modifications, positioning regulated pumps included.

Plug connector terminals insure a quick and trouble free installation or exchange. The CVC base unit is based on a modular system and complies with the Euro-rack arrangement, therefore additions are possible.

Display of: Bowl speed in rpm

Differential speed in rpm System pressure in bar

1 reserve channel configuration (f.i. oil temperature,)

Feed pump "OFF"

Bowl drive motor "OFF"

Operating hours of Rotodiff

Plain language display of: Cut-out pressure p2 in bar

Cut-out pressure p3 in bar

Stationary bowl

Indication of faulty situation

Language selection: German

English French Portuguese Spanish Dutch Norwegian Italian Danish

Regulation parameters: (Process adjustments)

10 individual process regulation programs (linear or non linear) The following parameters are individually adjustable on each

individual regulation program.

- Base speed Δ n1 - Regulation pressure p1

- Regulation stiffness α (only linear regulation programs)

Cut-out pressure
 Cut-out pressure
 Pressure limitation
 Differential speed range
 Character and form of
 Cut-out pressure
 p3 (Bowl drive "OFF")
 (only with Visualization)
 (only with Visualization)

each regulation program

Differential speed regulation: Regulation of the adjusted set value as well as automatic internal

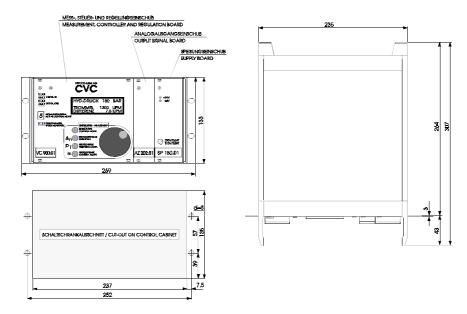
leakage compensation.

External adjustment: Through relays contacts all 10 process regulation programs can be

individually selected.







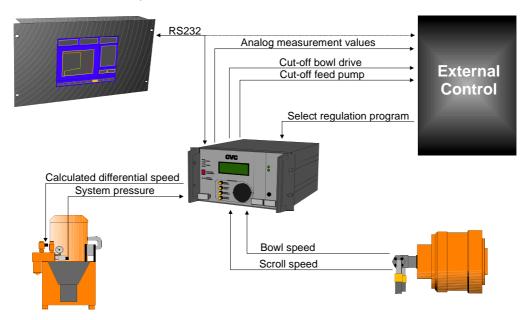
Voltage range: 110 V / 220 V (switchable)

Protection class: IP 40
Temperature range: 10 - 40 °C
Weight: 4 kg

Scope of delivery: Base CVC Unit in Euro-rack case. Complete set of connector terminals.

CVC is factory tested and pre-set according to Pump Unit and Rotodiff

specification.



Options to CVC Base Unit as follows:

Wash down waterproof case for CVC410 (Casing protection class, IP 55)

Extended temperature range 0 - 40 °C (with casing IP 55)

Speed pick-up sensors and pressure transducer

Speed pick-up sensors and pressure transducer in Ex-proof version

Analog output signal board (4-20 mA signals for bowl-, scroll speed, pressure and reserve cannel) CVC 510 for Full Hydraulic Drive Systems.

Visualizing software (Disc with visualizing software, ISA card for fix installation on PC or External industrial Touch Screen complete)

Connecting cables for long distances between CVC and Visualizing (Interface connection RS 485) As per first quarter of 2000 Profibus DP connection for PLC.