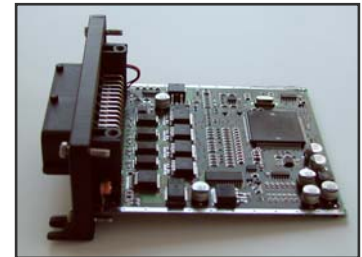




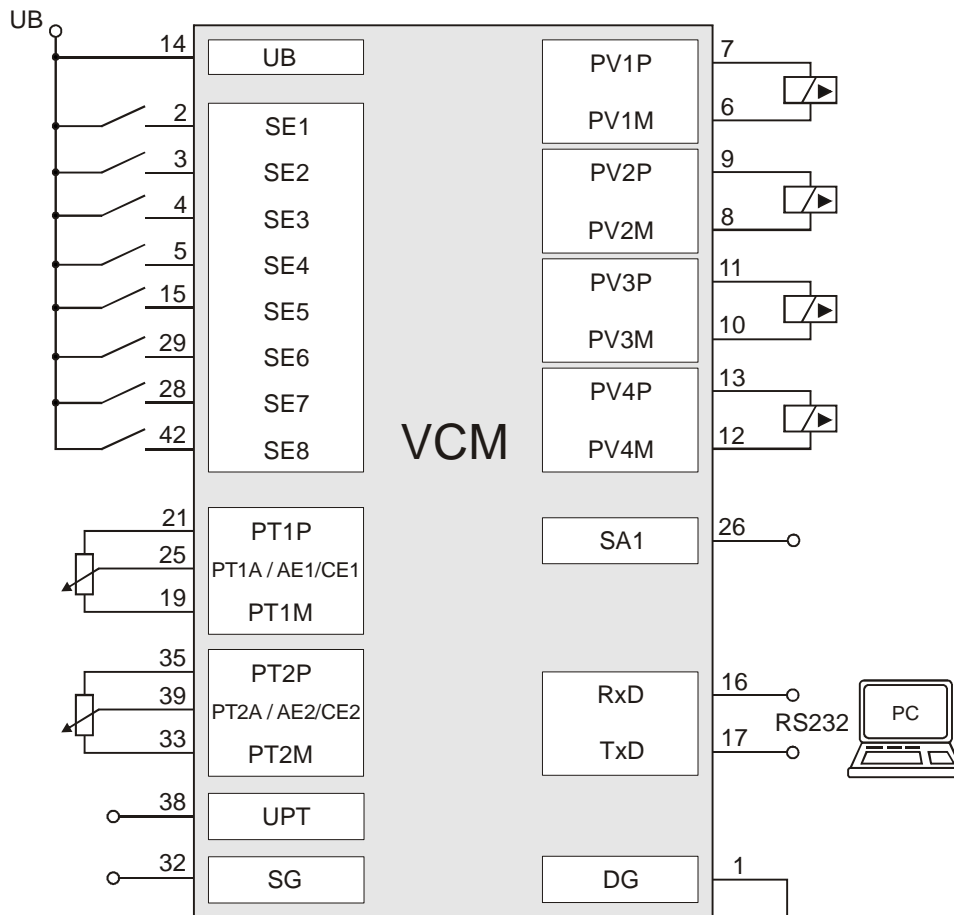
The Hydraulic Controller VCM

The control of valves is one of the standard applications within mobile and industrial hydraulics. ValveControlMedium has many uses within this field and is well suited to tough mobile use. The valve controller enables the control of four solenoids and the operation of either two double valves, one double valve and two single valves or four single valves.

The VCM controller is based on the hardware platform HCX . The hand terminal MT or the PC program Condoc – Control-&Document® serve to set the parameters.



VCM Connection diagram





VCM Performance features

- The command values for currents can be set using potentiometers (for example rotary potentiometer, joystick, foot pedal), PLC, or entered directly as fixed values using the switch inputs.
- The polarity sign of the setting value can be used to determine the direction (forwards or backwards operation) and to select the valve.
- Setting values without polarity signs can be allocated to two valves using the switches.
- Four preset fixed values per axis can be called-up digitally using the switches.
- The manner in which the input signal drives the valve can be programmed by the user as desired. Ramps can be set with ascent and descent times and non-linear characteristics with pre-defined curvature. A second set of parameters can be set and activated by switching.

VCM Functions

- The setting value range can be switched to a different scale at the analogue input. Different areas can be set for forwards and backwards movement.
- An additional release input permits switching off with a variable switching off ramp (EMERGENCY OFF).

VCM Hardware HCX

The controller is protected by a robust aluminium housing.



VCM - Technical data

Microprocessor::	C167CR, 20MHz
Program memory:	1 MByte Flash-EPROM
Data memory:	128kByte RAM
Parameter memory	64kBit EEPROM
Interfaces:	RS232 (for the connection of a PC or hand held terminal MT)
Inputs:	2 Analogue inputs 0 ... 10V 8 Digital inputs
Outputs:	4 Outputs for proportional solenoids up to 3A
Supply:	8 ... 32V, ca. 60mA at 24V
Connection:	AMP 1-0967280-1, 42 pins
Housing:	Aluminium black Protection category: IP65, IP69K
Temperature range:	-40 ... +85°C
Dimensions:	152mm x 150mm x 56mm

We reserve rights to make technical changes · Status 04/09