



DIPLOMATIC
HYDRAULICS

89 400/info ED



NEW PRODUCT INFO

DCU

DIGITAL CARD UNIT

DESCRIPTION

- * Eurocard format
- * 24 VDC - 30 W power supply
- * Protection against polarity inversion
- * Card set-up through RS232 serial port
- * Control of one or two hydraulic axes
- * Outputs for valves with integrated electronics (+/- 10V)
- * +/- 10V analog outputs for external amplifiers
- * Integrated power driver for a proportional valve with two solenoids
- * SSI digital feedback for position
- * Analog feedback 0-10V for pressure
- * Outputs totally protected against short circuits
- * Possibility to read and store the set-up data
- * Sensor self-calibration
- * Possibility to set up the unit via PC or Remote Control
- * Position and speed loop
- * Operating temperature 0-50°C

OPERATING PRINCIPLE

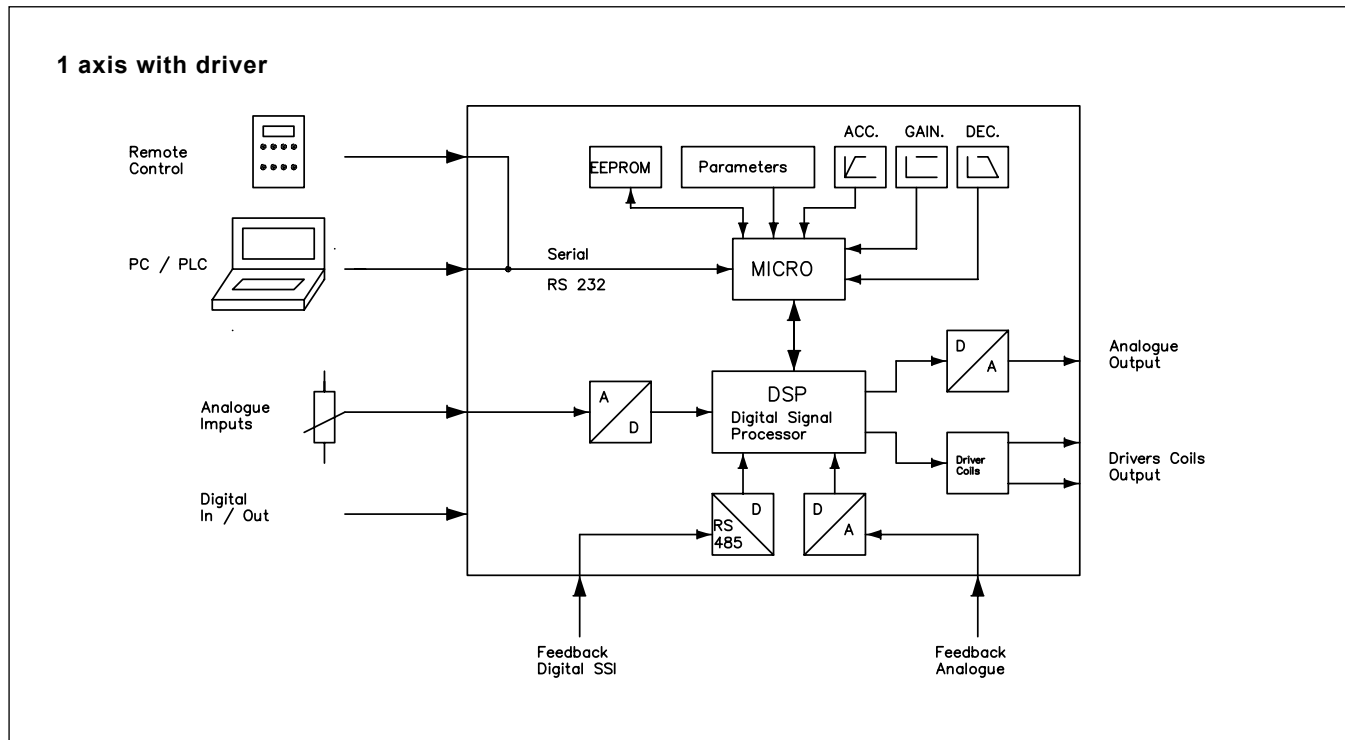
- The digital control unit has been designed and produced to digitally drive two hydraulic axes in closed loop movement and position.
- Besides, it can be used for power control in closed loop.
- All the parameters: target position speed transport, acceleration and deceleration ramps can be digitally controlled by the RS232 serial port, positioned on the front panel.
- Each parameter can be controlled independently of all the others.
- The amplifier has been designed to work with any kind of proportional valve, with integrated or traditional electronics, with zero or positive overlap.
- The amplifier can also drive the two axes independently. The positioning values, the transport speed parameters, the acceleration and deceleration ramps can be set with different values.
- The set-up can be saved as a simple file and it can be used to reproduce the original system settings. In this way the amplifier and the valve can be easily replaced.



APPLICATIONS

- * Closed loop position on machine-tools
- * Calenders for rubber or metal
- * Synchronized presses
- * Grindings: movement and position of the table
- * Plastic extractors: mould's opening and closing
- * Blow moulding machines: parison control - clamp movement - mould's opening and closing
- * Ceramics: ejection of the tile and open-close movement of the press
- * Wood and marble processing procedures
- * In any application where an hydraulic closed loop is required

OPERATING LOGIC



SOFTWARE

By means of the **software** installed on PC, via RS232 it is possible to change the parameters of the card and the calibration of the electro-hydraulic system.

By means of the **Remote Control**, via RS232 it is possible to change the parameters of the card and the calibration of the electro-hydraulic system.



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