

Valve controller



2224

- Front-programmable
- mA, V, and Ω programmable input
- Ramp times, jump values, reversal, chopper frequency, and deadband
- 3-digit LED display shows I-valve % value
- 1 or 2 channels



Advanced features

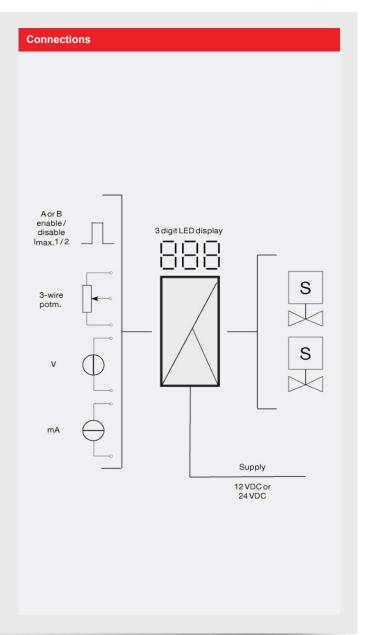
- Multifunction user interface consisting of three pushbuttons and a 3-digit LED display.
- All parameters are protected against unauthorized changes with a password.

Application

- Control and regulation of single- or double-coil hydraulic and pneumatic proportional valves used for accurate oil flow regulation, linear soft acceleration and deceleration, modulated output signal, and programmable deadband.
- Is highly suitable for joystick regulation of A/B movements.
- Where changes to A and B need to be selected directly or according to the value of an input signal.

Technical characteristics

- During operation the display shows the present output signal as a % of the I valve.
- Programmable current or voltage input for standard signals acc. to order schedule, joystick / potentiometer or a special non-programmable input.
- · Digital inputs for external control functions.
- A pulsating current output prevents the connected valve from sticking.
- Optional programming of the modulation frequency (PWM) between 8 and 400 Hz.
- Multiple adjustable parameters such as output currents, ramp times, jump values, chopper frequency, reversal, deadband, and ON/OFF functions.
- Mounting for a standard 11-pole socket which can be adapted for DIN rail or plate use with PR's 7023 adaptor and 7024 mounting keying.



SMARTER

Order:

Туре	Input		Sup	ply	Option	
2224	020 mA 420 mA 01 V 01 V 010 V 210 V ±10 V potentiometer 010 V potentiometer	: A : B : C : D : E : F : G : H	12 V 24 V	: 1	Single valve (A) Double valve (A/B)	: A : B

Environmental Conditions

Specifications range	-20°C to +60°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP50

Mechanical specifications

Common specifications

Supply voltage	9.614.4 or 19.228.8 VDC
Internal consumption	2 W / 24 V
Internal consumption	1,8 W / 12 V
Communication	Front-programmable
Updating time	30 ms
Temperature coefficient	0.01%/°C
Linearity error	0.2%
EMC immunity influence	< 2% of span

Input specifications

020 mA
420 mA
50 Ω + PTC (54 Ω)
0/0.21 V and 0/210 V
10 ΜΩ
$010~V$ or $\pm 10~V$ / $10~k\Omega$
PNP / 2.2 kΩ, 12 / 24 V
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PNP / 2.2 kΩ, 12 / 24 V
099.9% of input span

Output specifications

Output voltage	Supply voltage-0.5 V (max.)
Output power	36 W (max.)
Output current	3000 mA mean
Current peak	7 A
Reference voltage	10 VDC (A valve)
Reference voltage	±10 VDC (A & B valve)
Ramp up & down	Time 010.0 s
PWM frequency	8400 Hz in steps of 1 Hz
*of span	= of the presently selected
•	range

Approvals

EMC	EN 61326-1
GOST R	Yes