



Valve controller

2224

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











Advanced features

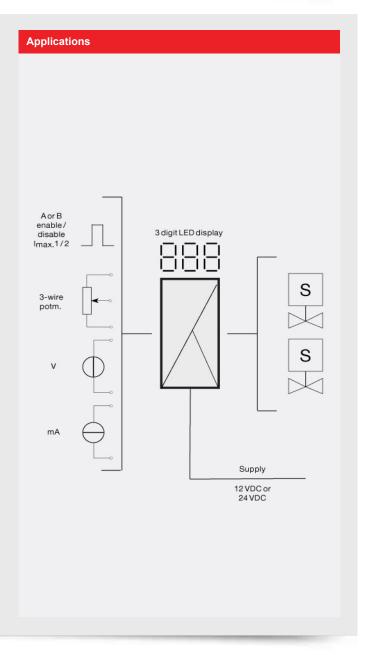
- · Multifunction user interface consisting of three pushbuttons and a 3-digit LED display.
- · All parameters are protected against unauthorized changes with a password.

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 nonprogrammable 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.



Order:

Туре	Input		Sup	ply	Option	
2224	020 mA 420 mA 01 V 0.21 V 010 V 210 V ±10 V potentiometer 010 V potentiometer	: A : B : C : D : E : F : G : H	12 V 24 V	: 1 : 2	Single valve (A) Double valve (A/B)	: A : B

Environmental	Canditiana
Environmental	Conditions

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

Mechanical specifications

Dimensions (HxWxD)	80.5 x 35.5 x 84.5 mm (D is
	without pins)
Weight approx	130 a

Common specifications

Supply

Supply voltage (nom. 12 V	
/ 24 V)	9.628.8 VDC
Internal power dissipation	2 W / 24 V
Internal power dissipation	1,8 W / 12 V
Programming	Front-programmable
Updating time	30 ms
Temperature coefficient	0.01%/°C
Accuracy	Better than 0.2% of selected
	range
Linearity error	0.2%
EMC immunity influence	< 2% of span

Input specifications

Current input

Measurement range	020 mA
Measurement range	420 mA
Input resistance	50 Ω + PTC (54 Ω)

Voltage input

Measurement range	0/0.21 V and 0/210 V
Innut resistance	10 MO

Potentiometer input

Potentiometer input	
Potentiometer minmax	$010~V$ or $\pm 10~V$ / $10~k\Omega$
Operation / shutdown	PNP / 2.2 k Ω , 12 / 24 V
Imax.1 & Imax.2	PNP / 2.2 k Ω , 12 / 24 V
A / B channel	PNP / 2.2 k Ω , 12 / 24 V
Deadband	099.9% of input span

Output specifications

Output voltage	Supply voltage-0.5 V (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

Observed authority requirements

EMC	2014/20/ELL 9 LIK SL 2016/1001
LIVIC	2014/30/LO & OK 31 2010/1091
RoHS	2011/65/EU & UK SI 2012/3032
FAC	TR-CI1.020/2011