TYPE: ADP15-POTENTIOMETER

ADP15-POTENTIOMETER Position Indicator

Description

The ADP15-POTENTIOMETER range of products is very versatile, accepting a wide range of different signal input types and ranges.

The ADP15-POTENTIOMETER's flexibility makes it the first choice for many control system designers. Supporting products like PC software, printers, and sensors, means most customers can deal with a single supplier.

Outputs include:-

Analogue voltage and current, Industry standard digital communications, Relays, Printer Drive

Options and Accessories include:-

Panel mounting, DIN rail mounting, Power supplies for 110/230 V AC or 9-32V DC, Communications for Printer, PLC or PC

The ADP15-POTENTIOMETER can be supplied as part of a system, and will interface directly with LCM Systems potentiometric sensors, including the PD13. Please contact our technical department to discuss your application.



Specifications

General Specifications

ccuracy	Typical ±0.08% of output, ± 0.08%FSD
Resolution	As display resolution, max 15 bits
Calibration	By 15-turn pre sets for gain and offset
nversion	By keypad value
solation	±130V RMS or DC max to analogue input or to any other port
tanging	Fully keypad scalable over desired display range
PID	Power level, when selected = 12 bit resolution output

Display

Ac Re Ca In Iso Ra PI

7 segment 4.5 digit display (max display ±19999), 10mm high digits 3 x 3mm LED's 2 for relay status, 1 for program and hold indicat

Front Panel Keys/Buttons

TION Fanel Neys/Duttons	
4 membrane panel keys, offering the	following functionality, when configuring:-
Scroll key to view/update parameter.	
Digit select key	
Digit increment key	
Reset key	
The keys can be configured in norma	al operation, to offer the following functionality
Keypad can be disabled when in nor	mal operation, required.
Peak/Trough hold reset	
Resetting of relay latches	
Auto-Zero display	
Physical	
Case Dimensions	DIN 72 x 72 x 163mm (excluding mounting terminal)
Case Material	Grey Noryl, flame retardant
Weight	750 grams
Terminals	2.5mm, saddle field terminals
Accessibility	Electronics removable through front panel leaving field wiring and case in situ.
Data Retention/Protection	
Retention:	10 years for set up values, minimum of 100,000 write cycle
Protection of data and function(s)	Watchdog timer giving repeat auto resets. Impending power detection and

hold off. Keypad security and time out.



www.lcmsystems.com

Features

- Microprocessor based design
- Full calibration & programming via keypad & communications import
- 4¹/₂ digit scaling
- Isolated inputs & outputs
- 3 year guarantee •
- PID Control
- Any potentiometer
- Angular measurement
- Position measurement

Typical Applications

- Feedback control of stroke based control systems, requiring PID control
- Distance measurement
- Angular rotation • measurement
- Leveling systems

The Potentiometer Position Indicator

TYPE: ADP15-POTENTIOMETER

CE & Environm Storage temperature	-20 to +70°C		
Operating temperatur			
Relative humidity Low Voltage Directive		m non-condensing	
EMC Directive	2004/108/EC		
Input Options			
Input Type	Input Range	Order Co	de
Potentiometer	Any value in the range 100	R to 10K RL	
DC Analogue O	utputs		
Output Range 0 to 10V	Order Code	Output Range 4-20mA	Order Code A3
Maximum Current out		Maximum Voltage out 2	
Communication			
Port Type	Order Code		
RS485/232	COM 1		
	truments on 1 bus, 4 wire. rect connection to 1 device.		
Port Specifications			
Baud rates	300, 600, 1200, <u>2</u> 400	, 4800, 9600 (19200 MANTRA	BUS only)
Electrical isolation		ax to analogue input or any oth	
Formats Cable Length	1km (depending on b	TRABUS and printer output for aud rate)	mats
0		2 output. The output drive for a prir	nter offers a Time/Date stamp a
number together with the		butput drive for a log number only, t	
0		can be accessed via the communic	cations port along with relav an
EEPROM status. All use		d including EEPROM enable/disab	
cannot be changed).	Nutroute.		
Alarm/Control C	Order Code		
Relay Output Type One Relay (DPCO)	R2		
Two Relays (SPCO)	R3		
Relay Output Specif	ications		
Relays	230V at 5A A	C resistive	
	±130V RMS		
Isolation			figured for latching
Keypad	Can be used	to reset latch, when relays con	figured for latching
Keypad Power Supplies	Can be used		figured for latching
Keypad	Can be used e Order Code		figured for latching
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60	Can be used e Order Code Hz 10W 240 Hz 10W 110		figured for latching
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24		figured for latching
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option	Can be used Can be used Part Code Hz 10W 240 Hz 10W 110 ed 12/24 NS	to reset latch, when relays con	
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24		Order Coo
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con	Order Coo
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con	Order Coo
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con	Order Coo D
Keypad Power Supplies Power Supply Rang 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con	Order Coo D
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con	Order Coo D
Keypad Power Supplies Power Supply Rang 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con Mounting Type DIN Rail Mounting	Order Coo
Keypad Power Supplies Power Supply Rang 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical Dimensions	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con	Order Coo D
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical Dimensions All dimensions in	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con Mounting Type DIN Rail Mounting	Order Coo
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical Dimensions All dimensions in	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con Mounting Type DIN Rail Mounting	Order Coo
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical Dimensions All dimensions in	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con Mounting Type DIN Rail Mounting	Order Coo
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical Dimensions All dimensions in millImeters	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 nS Order Code	to reset latch, when relays con Mounting Type DIN Rail Mounting 67	Order Coo
Keypad Power Supplies Power Supply Range 220V-230V AC 50-60 110V-120V AC 50-60 9-32V DC 10W isolate Mounting Option Mounting Type Panel Mounting Mechanical Dimensions All dimensions in	Can be used e Order Code Hz 10W 240 Hz 10W 110 ed 12/24 NS Order Code P	to reset latch, when relays con <u>Mounting Type</u> DIN Rail Mounting 67	Order Coo D 67 PANEL CUT OUT

Unit 15, Newport Business Park Barry Way, Newport, Isle of Wight, PO30 5GY United Kingdom Tel: +44 (0) 1983 249264 Fax: +44 (0) 1983 249266 sales@lcmsystems.com

Due to continual product development, LCM Systems Ltd. reserves the right to alter product specifications without prior notice.

Issue date: 17/11/2011

OLCM SYSTEMS

Solutions in Load Cell Technology

72

www.lcmsystems.com