Kinetrol I/P Controller

The optional Kinetrol I/P Controller is mounted in place of the standard diaphragm housing on the side of the AP positioner case. The AP positioner can still be mounted in any orientation and gives an angular output position which is proportional to the input current control signal between 4-20mA.

The 4-20mA signal is converted to an air pressure by a coil and magnet and flapper valve arrangement. This air pressure controls the positioner in the normal way.

Zero and range adjustment is done within the positioner in the same way as with a standard pneumatic positioner. No adjustment is necessary within the I/P Controller. The cover is removed only to connect the two wires - this is not necessary with the DIN plug option.

Specification - Safe Area

Electrical Control Signal	4-20mA		Kine whic
Coil Impedance	20 ohms typical		certi and
Cable Entry	16mm conduit or gland (mini DIN plug, IP 65 with Pg9 cable gland, 6-8mm dia optional)		mou with
Air Supply	5.5 bar / 80 psi nominal		- · · ·
Air Entry	G ¹ / ₈ (fitted with 6mm pipe dia. push in connector		Elect Signa Input
Weight	1.2 kg / 2.65 lb		Cable
Linearity	1.5%*		
Hysteresis	less than 1%*		
Sensitivity/Deadband	less than 1%*		Air Su
Supply Pressure Influence	0.2% per psi between 80 and 60 psi		Air Er
Quiescent Air Consumption	3.5 l/min free air max		Worki
Working Temperature Range	-20°C to +80°C (-4°F to +1	76°F)	Instrur 3.4.4 I
nstrument quality dry, clean air obligatory (Class 5.4.4 ISO 8573-1:2010)			ATEX
* These refer to the combination of controller - not just the positioner			Explos Ex II 2 Ex II 2
			Intrins

I/P Controller - Hazardous Area

Kinetrol offers various optional I/P converters which are explosion proof or intrinsically safe certified for use in ATEX Zones 1 & 2 or NEC and CSA CLASS I DIVISION 1. They are mounted directly onto Kinetrol AP positioners with integral air supply.

Specification - Hazardous Area

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	Electrical Control Signal	4-20mA	
	Input Resistance	260 ohms at 24°C	
	Cable Entry	Exd - M20 x 1.5 conduit entry FM/CSA - ¹ / ₂ NPT conduit entry	
	Air Supply	50-100 psi/3.5 to 7 bar	
	Air Entry	Exd (AP & MP) G ¹ / ₄ (¹ / ₄ NPT) (HP) G ³ / ₈ (³ / ₈ NPT)	
	Working Temperature	-40°C to 75°C (-40°F to +167°F) for Exd -55°C to 85°C (-67°F to +121°F) for Exia	
)	Instrument quality dry, clean air obligatory (Class 3.4.4 ISO 8573.1) ATEX certificated as follows:		
	Explosion proof Ex II 2G Ex d IIB+H2 T6 Ta= -40°C to +75°C Ex II 2D Ex tD A21 IP65 T85°C Ta= -40°C to +75°C		
Intrinsically safe			
	Ex II 1G Ex ia IIC T4 Ta= -55°C to +85°C		

For FM Approved version - contact Kinetrol

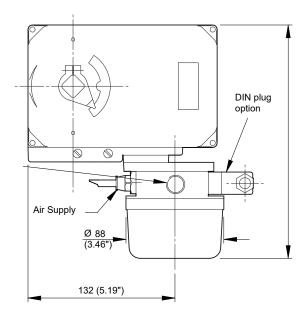


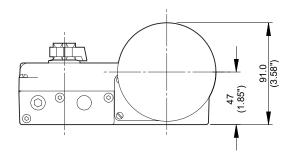
KINETROL

Kinetrol I/P Controller

Dimensions

Non-Hazardous I/P Version





Explosion Proof I/P Version

