PRESSURE



DESCRIPTION

The **Kele PCM Series Pressure Controller** is a low air pressure transducer combined with a microprocessor-based proportional or Proportional plus Integral (PI) controller. The compact size and ease of installation and setup makes this unit ideal for standard HVAC applications. Ranges are available from 0-2, 3, or 5 "W.C. The setpoint adjustment knob is clearly marked with the appropriate scale for ease of use. All setup and tuning is easily accomplished by DIP switches and bottle plug jumpers. Mounting is a snap with the convenient mounting tabs or with the DIN rail mounting option. Remote setpoint is also possible with voltage or milliamp signals. The **PCM Series** can be configured for direct or reverse acting control.

FEATURES

- Proportional or PI control
- Easy setup
- DIP switch/jumper setup and tuning
- Selectable proportional band
- Selectable integral reset rate
- Direct or reverse acting
- Optional DIN rail mounting
- Compact size
- Position insensitive

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- Controlling duct pressures
- Isolation rooms

APPLICATION

- VAV systems
- Inlet guide vanes and VFDs
- Paint booths
- Relief damper control

SPECIFICATIONS

• Pressure bypass damper control

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Supply Voltage 24 VDC +15%, -10%, <75mA	Normal Measurement F	
4-20 mA sourcing	Overpressure (Burst)	300" WC (74.7 kPa)
Min Current Output Impedance	Max Operating Pressur	
Setpoint (SP) Adjust Local	Operating Temperature	200 WC (49.8 KPa) 2 32° to 125°F (0° to 52°C)
POT with range legend	Operating Humidity Wetted Parts	0 to 90% Non-condensing Silicon
$10K\Omega$ POT, (up to 24" away) (UCM-	Media Compatibility	Inert dry air
SPA) 1-5VDC @10KΩ	Process Connection	1/4" Poly tubing
4-20 mA @250Ω Single loop Propertional or "Pl"	Wiring Terminations	3-4 depending on configuration,
Display/Audible (If Any) Green Power LED	Mounting	2 tabs, 0.19" holes or
Accuracy ±2% of range (including linierity & hysteresis)	Enclosure Bating	DIN rail option (47) NOBYL SEIGEN2 plastic NEMA 1
Resolution 255 steps		UL94V-0
Sensor Type Piezoresistive Adjustments (Loop Tuning)	Dimensions	2.0"W x 4.6"H x 4.8"D, (5.1 x 11.7 x 12.2 cm)
Adj. DA/RA, Proportional range and	Weight	1.3 lb (0.61 kg)
integral time	Warranty	18 Months
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NEXT DAY SHIPPING AVAILABLE ON IN-STOCK ORDERS.

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RoHS



SETUP FOR LOCAL SETPOINT OPERATION (FACTORY SETTINGS)

- 1. Switch A1 off and switch A2 on.
- 2. Set jumper positions to 1, 8, and 11.
- 3. Set switch A3 in the on position for direct acting control and in the off position for reverse acting control.
- 4. Set switches A4 and A5 in the off position.
- 5. Set switches A6, A7, and A8 in the on position. This will set the proportional band at 100%.
- 6. Set all B switches to the off position.

7. All systems will require a fine-tuning process. Start the tuning process by decreasing the proportional band in increments through switches A6 through A8 until the system becomes unstable. Then, return to the DIP switch settings before the system started to hunt.

PRESSURE

PCM SERIES

PRESSURE CONTROLLER

8. Switches A4 and A5 are used to select the integral reset rate. This feature corrects the offset that is inherent with proportional-only controllers. If it is determined that the integral reset is needed, increase the rate until this offset is corrected and still maintains stability.

ORDERING INFORMATION

MODE	DESCRIPTION		
PCM	Pressure setpoint controller		
	PRESSURE RANGE		
	020 0-2" W.C.		
	030 0-3" W.C.		
	050 0-5" W.C.		
	OPTIONS		
	47 DIN rail mounting (must be factory installed)		
PCM	- 620 - 47 Example: PCM-020-47 Pressure controller for a		
RELATED PRODUCTS			
A-301-K Duct static pressure tip, 1/4" compression			
A-302-K Duct static pressure tip, 1/4" barb			
A-308-K	A-308-K Duct static pressure fitting, 1/4" barb		
A-345-K	345-K Flange mounting kit (1 required for each A-301-K or A-302-K)		
RPS	Stainless steel room pressure sensor, 1/4" barb		
RPS-I	lvory plastic room pressure sensor, 1/4" barb		
RPS-W	White plastic room pressure sensor, 1/4" barb		
SD-01	Surge dampener		
T-101	1/4" OD black poly tubing, 1 coil, 250 ft (76 m)		

103