



DESCRIPTION

The **CP-8500 Series** electronic/pneumatic transducers handle a wide variety of pneumatic valve and damper applications that require a 3-15 psig control signal from an electronic controller output. The **CP-8551** is a basic two-wire loop-powered unit with 4-20 mA input. The **CP-8552** is a 3-wire unit with a jumper-selectable input for 4-20 mA, 6-9 VDC or 0-10 VDC. The **CP-8511** has a variety of jumper-selectable inputs, a pressure gauge, manual override, and 20 VDC power output for auxiliary components.

FEATURES

- **Panel or DIN-rail mount for quick snap-on installation**
- **High accuracy and low hysteresis for precise control**
- **Long term driftless operation with high repeatability for long life and high performance**
- **Low air consumption to save energy**
- **High airflow capacity to handle large pneumatic components and long tubing runs**
- **Models with field-selectable inputs**
- **Integral 20 VDC auxiliary power supply, pressure gauge and manual override on CP-8511**

NEW!



CP-8551



CP-8511-024



SPECIFICATIONS

Supply Voltage CP-8551 None, 4-20 mA loop powered CP-8552, -8511 20 to 30 VAC, 50/60 Hz or 24 to 30 VDC Supply VA 3.9 VA (CP-8552) Supply Watts CP-8552 1.6 W maximum CP-8511 3.8 W Input CP-8551 4-20 mA CP-8552 4-20 mA, 0-10 VDC, 6-9 VDC, jumper selectable CP-8511 4-20 mA, 1-5 mA, 6-9 VDC, 1-5 VDC, 0-10 VDC, 1-11 VDC, 2-10 VDC, jumper selectable Input Impedance CP-8551 550Ω CP-8552 550Ω (current input); >10 kΩ (voltage input) CP-8511 250Ω @ 4-20 mA; 1000Ω @ 1-5 mA; >10 kΩ for voltage inputs Wiring Terminations Screw terminals for 16 to 22 AWG wire Action CP-8551, -8552 Direct acting CP-8511 Direct or reverse acting, jumper selectable Air Capacity 550 scim (150 ml/s) Air Connections Barbed fittings for 1/4" OD tubing Air Consumption 0.012 scfm (5.66 ml/s) @ 20 psig (138 kPa) supply Maximum Pressure 30 psig (207 kPa) maximum Media Compatibility Clean dry air, 20 psig nominal supply pressure Linearity ± 1% of span @ 75°F (24°C)	Hysteresis 0.75% of span @ 75°F (24°C) Output 3-15 psig (21-103 kPa) Output Voltage 20 VDC auxiliary output (CP-8511 only), 50 mA maximum Adjustments CP-8552 Adjustable start point and span potentiometers for voltage input CP-8511 Field adjustable zero potentiometer Manual Override Auto/manual switch enables output override using a manual output potentiometer, LED goes off when in Manual mode (CP-8511 only) Feedback Auto/manual feedback provided by isolated open collector output transistor (TP1, TP2) (CP-8511 only) Operating Temperature 32° to 140°F (0° to 60°C) Operating Humidity 5 to 95% RH, non-condensing Mounting Vertical, within 5° Enclosure Rating NEMA 1 Dimensions CP-8551, -8552 4.6"H x 2.8"W x 2.6"D (11.8 x 7.1 x 6.8 cm) CP-8511 4.6"H x 5.0"W x 2.6"D (11.8 x 12.7 x 6.8 cm) Weight CP-8551, -8552 0.4 lb (0.2 kg) CP-8511 0.8 lb (0.4 kg) Approvals UL 873, file #E9429; CSA, C22.2 No. 24-93; CE, EMC Directive 89/336/EEC, low voltage directive 72/23/EEC Warranty 1 year
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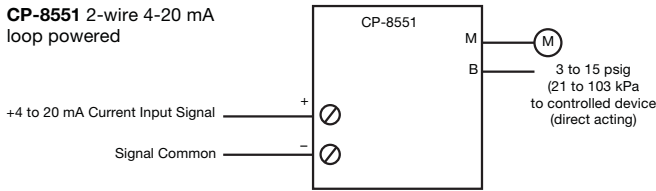
TRANSDUCERS

ELECTRONIC/PNEUMATIC TRANSDUCER

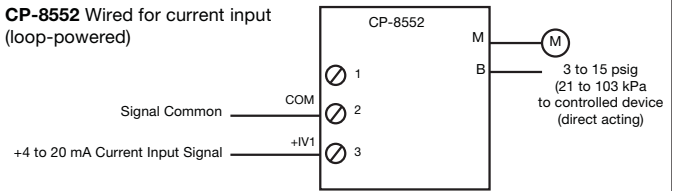
CP-8500 SERIES

WIRING

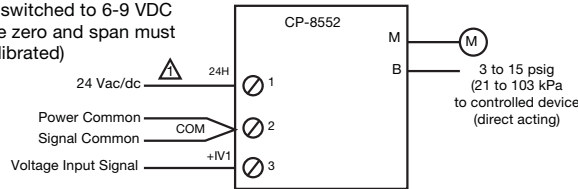
CP-8551 2-wire 4-20 mA loop powered



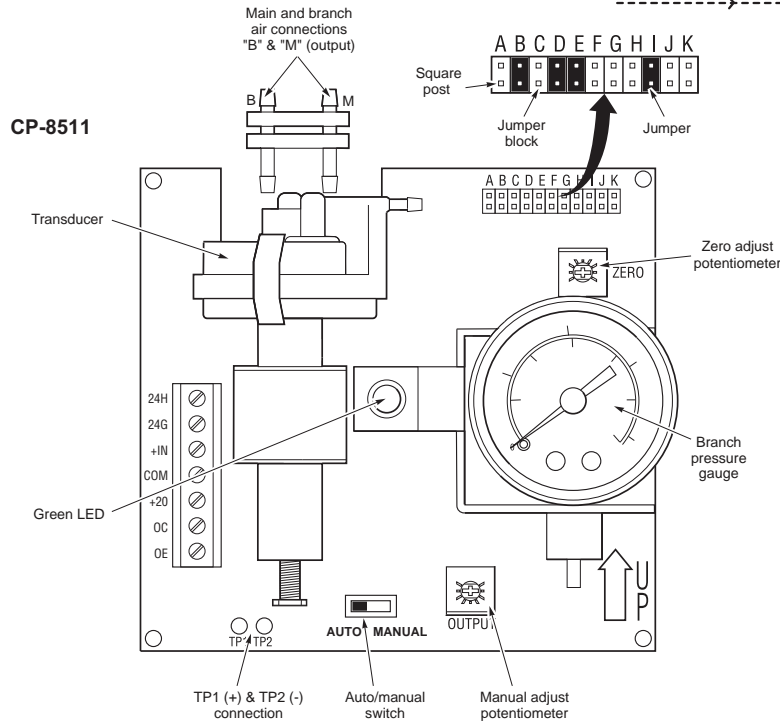
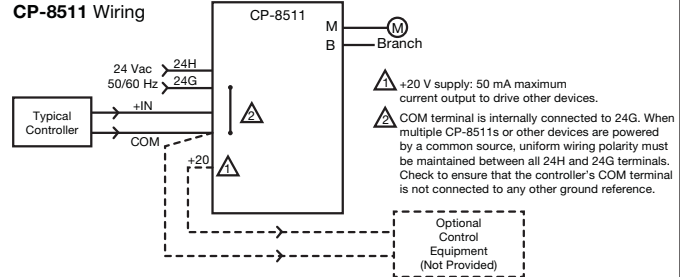
CP-8552 Wired for current input (loop-powered)



CP-8552 Wired for voltage input (factory calibrated for 0-10 VDC range, if switched to 6-9 VDC range the zero and span must be re-calibrated)



CP-8511 Wiring



ORDERING INFORMATION

MODEL	DESCRIPTION
CP-8551	Current/pneumatic transducer, 4-20 mA input, 3-15 psig (21-103 kPa) output
CP-8552	Current or voltage/pneumatic transducer, 4-20 mA, 6-9 VDC or 0-10 VDC input, 3-15 psig (21-103 kPa) output
CP-8511-024	Current or voltage/pneumatic transducer, multiple field selectable mA or VDC inputs, 3-15 psig (21-103 kPa) output

RELATED PRODUCTS

MODEL	DESCRIPTION	PAGE
BAM-1000	35 mm aluminum DIN mounting rail 39.4" (1m)	714
DIN-3F	35 mm DIN rail, steel, 39.4" (1m), RoHS compliant	229
FILN05	In-line disposable air filter, straight, with barbs for 1/4" OD tubing	750
T-101	1/4" OD black poly tubing, 1 coil, 250 ft (76 m)	759