

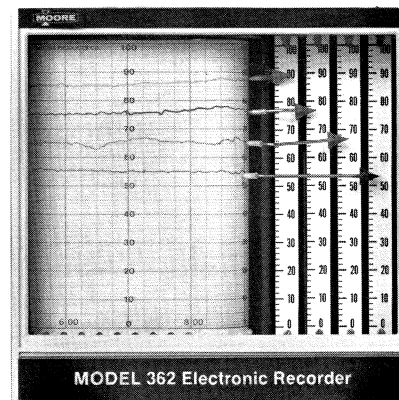
Electronic Strip-Chart Recorders (with fully isolated inputs)

FEATURES

- Up to four records
- Fully isolated inputs
- Servo powered pens
- Non-critical angle of pen contact
- Non-critical pen pressure
- Cross-inking virtually eliminated
- Snap-in magazine assembly for convenient chart changes
- Separate torque motor for high-speed chart rewind
- Loop identification card
- Field power for 2-wire transmitters

OPTIONS

- Dual speed chart drive
- Chart drive on-off switch
- Alternate chart speeds
- Alternate power supplies



DESCRIPTION

The Series 362 Electronic Recorders are panel-mounted, pen and ink type recording instruments. They are general purpose recorders, designed to be used in process control systems in which a permanent chart record of a process variable is required.

The Series 362 Recorders are designed to be companion recording mechanisms to the MYCRO 352 Single-Loop Digital Controller. The recorders mount in a single row cutout with the Series 352 SLDC or they can be individually mounted in a standard DIN cutout.

The recorder is made up of two major assemblies: the chassis assembly, which carries all the functional parts, and a case assembly, which serves as a housing and mounting unit for the recorder. By actuating the chassis release mechanism the instrument can be withdrawn from the case for normal servicing. All functional components are on easily-removed, plug-in electronic circuit boards to simplify maintenance.

The Series 362 Recorders have fully isolated inputs and can provide power for up to four 2-wire, 4-20 mA field transmitters. They are available in 1, 2, 3 or 4 pen versions with the following standard colors, a 1-pen recorder has a red pen; the 2-pen recorder has a red and blue pen; the 3-pen recorder has a red, blue and green pen; and the 4-pen recorder has a red, blue, green and orange pen. The pens all ink a common time-based chart which is normally graduated in process units. With a normal 7/8 inch per hour chart drive, approximately 3 1/2 hours of chart record is visible from the front panel. Each pen carries an indicator flag (color coded to match the ink color) that indicates on a graduated scale specified for that particular pen.

Two types of pen assemblies are available: A standard, permanent, stainless steel pen with a disposable ink cartridge which provides a minimum trace length capacity of 1000 feet, or a disposable pen assembly with integral ink reservoir which gives a trace length capacity of 2000 feet.

SPECIFICATIONS

Inputs:

Voltage: 1-5 Vdc, (0-5 Vdc opt.) (1M ohm min.)

Current: 4-20 mA (four 250 ohm resistors furnished with each recorder) 1-5 mA and 10-50 mA (opt.)

Isolation: Fully isolated, each input signal has individual isolated circuit common.

Display:

Chart: 4" strip chart with rectilinear coordinates, standard speed 7/8" per hour

Indicator: One 4" scale per pen, scale graduated in process units

Performance:

Accuracy: $\pm 0.5\%$ of span

Repeatability: 0.1% of span

Response Level: 0.1% of span

Slew Speed: 7 seconds for full-scale travel, typical

Ambient Temperature Range:

0-38 deg C (32-100 deg F) with standard ink

0-50 deg C (32-122 deg F) with optional high temp. ink

Ambient Temperature Effect: 0.02%/deg C

Electrical Classification: FM and CSA Approved as Non-incendive for Class 1, Div. 2, Groups A, B, C & D.

Suitable for use with intrinsically safe devices and their required energy-limiting barriers.

Supply Voltage: 120 Vac, +10%, -15%, 60 Hz std.

See Model Selection Table for options available

Power Requirements: 45 Watts maximum

Field Transmitter Power:

Individual circuit isolation maintained

Voltage: +26.0 Vdc $\pm 7.5\%$

Max. Current: 25 mA (per pen), current limited

ORDERING INFORMATION

1. Model number from model selection
2. Scale range (each pen)
3. Chart range
4. Input range
5. Legend card printing
6. Options

*Voltage Tolerance
AC: +10%, -15%
DC: +20%, -15%

MODEL SELECTION

Basic Series Number 362

Power Requirements*

120 Vac, 60 Hz	A
120 Vac, 50 Hz	C
24 Vac, 60 Hz	B
24 Vac, 50 Hz	D
220/240 Vac, 60 Hz	E
220/240 Vac, 50 Hz	F
24 Vdc/24 Vac, 60 Hz	G
24 Vdc/24 Vac, 50 Hz	H
24 Vdc/120 Vac, 60 Hz	J
24 Vdc/120 Vac, 50 Hz	K

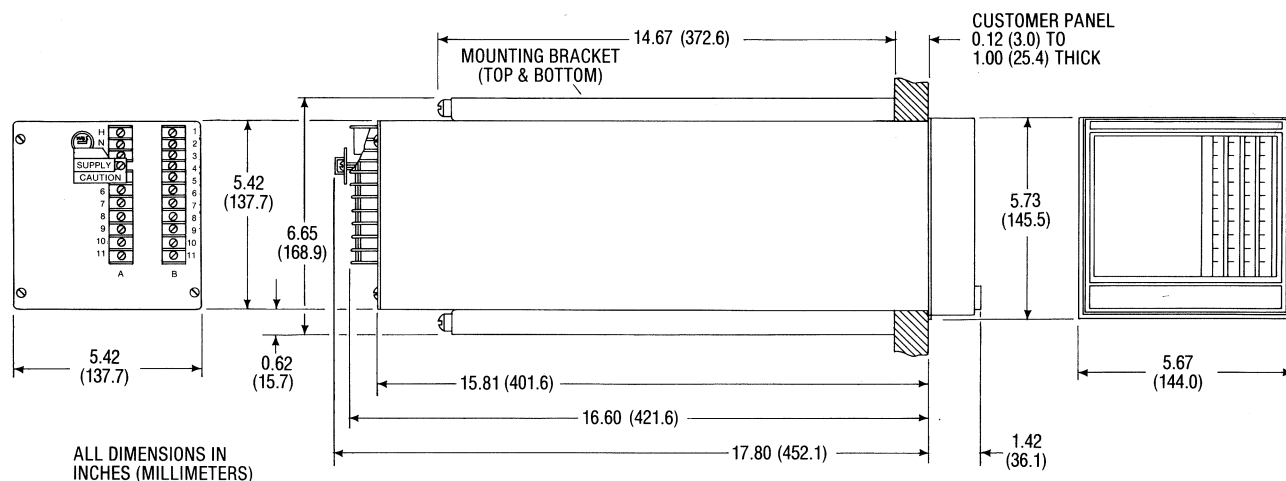
Pens

One Pen	1
Two Pen	2
Three Pen	3
Four Pen	4

Electrical Approval

Not applicable	N
FM for Class 1, Div. 2, Groups A,B,C,D	F
CSA for Class 1, Div. 2, Groups A,B,C,D	C

MOUNTING DIMENSIONS



PANEL CUTOUT DIMENSIONS: TOLERANCE +0.06 -0 (+1.5, -0)

HEIGHT = 5.44 (138.2)

WIDTH: INCHES = (2.84 x A) + (5.67 x B) -0.16

mm = (72.1 x A) + (144.0 x B) -4.1

WHERE: A = NUMBER OF 352 & 372 STATIONS

WHERE: B = NUMBER OF 362 RECORDERS

ANGLE MOUNTING: RECORDER SUITABLE FOR MOUNTING ON PANEL FACE TILTED BACK FROM VERTICAL UP TO 45 DEGREES

ALTERNATE (DIN STANDARD) CUTOUT

FOR INDIVIDUALLY MOUNTED 362 RECORDERS ONLY

138 mm HIGH x 138 mm WIDE

NOTE: ALTERNATE CUTOUT DOES NOT ALLOW FOR POSSIBLE FUTURE SUBSTITUTION OF 2 MODEL 352 OR 372 STATIONS DUE TO WIDTH LIMITATIONS