

## Space-saving Plug-in Signal Conditioners H-UNIT

### SIGNAL TRANSMITTER

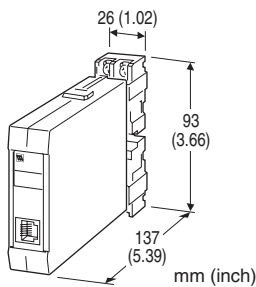
(field-programmable)

#### Functions & Features

- Converting a DC input into a standard process signal
- Micro-processor based
- Field-programmable input range
- Loop testing via hand-held programmer PU-2x
- High-density mounting

#### Typical Applications

- Isolation between control room and field instrumentation
- Ideal for quick spare part



## MODEL: HJV-[1][2]-R[3]

### ORDERING INFORMATION

- Code number: HJV-[1][2]-R[3]
- Specify a code from below for each [1] through [3]. (e.g. HJV-6A-R/Q)
- Special input range (For codes U1, U2, U3)
- Specify the specification for option code /Q (e.g. /C01/S01)

### [1] INPUT

#### Current

- A: 4 - 20 mA DC (Input resistance 250 Ω)
- H: 10 - 50 mA DC (Input resistance 100 Ω)

#### Voltage

- 6: 1 - 5 V DC (Input resistance 1 MΩ min.)
- U1: Range ±100 mV; minimum span 3 mV
- U2: Range ±1000 mV; minimum span 30 mV
- U3: Range ±10 V; minimum span 0.3 V

### [2] OUTPUT

#### Current

- A: 4 - 20 mA DC (Load resistance 600 Ω max.)

#### Voltage

- 6: 1 - 5 V DC (Load resistance 500 Ω min.)

### POWER INPUT

#### DC Power

- R: 24 V DC
- (Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

### [3] OPTIONS

- blank: none
- /Q: With options (specify the specification)

### SPECIFICATIONS OF OPTION: Q (multiple selections)

#### COATING (For the detail, refer to M-System's web site.)

- /C01: Silicone coating
- /C02: Polyurethane coating
- /C03: Rubber coating

#### TERMINAL SCREW MATERIAL

- /S01: Stainless steel

### RELATED PRODUCTS

- JX configurator connection kit (model: JXCON)
- Programming Unit (model: PU-2x)

### GENERAL SPECIFICATIONS

**Construction:** Plug-in

**Connection:** M3.5 screw terminals (torque 0.8 N·m)

**Screw terminal:** Nickel-plated steel

**Housing material:** Flame-resistant resin (black)

**Isolation:** Input to output to power

**Overrange output:** Approx. -10 to +120 % at 1 - 5 V

**Adjustments:** Programming Unit (model: PU-2x); Input range, zero and span, simulating output, etc. (Input range can be changed with Codes U1, U2 or U3 and limited within ranges of each code type.) (Refer to the users manual of JXCON for the adjustments configurable with JXCON.)

### INPUT SPECIFICATIONS

#### ■ DC Current:

Shunt resistor attached to the input terminals (0.5 W)

#### ■ DC Voltage: -10 - +10 V DC

**Minimum span:** 3 mV

**Offset:** Max. 3 times span

**Input resistance** (Input Range: Input Resistance)

U1: ±100 mV: 20 kΩ min.

U2: ±1000 mV: 20 kΩ min.

U3: ±10 V: 1 MΩ min.

Default setting will be used if not otherwise specified.

U1: 0 - 100 mV DC

U2: 0 - 1 V DC

U3: 0 - 10 V DC



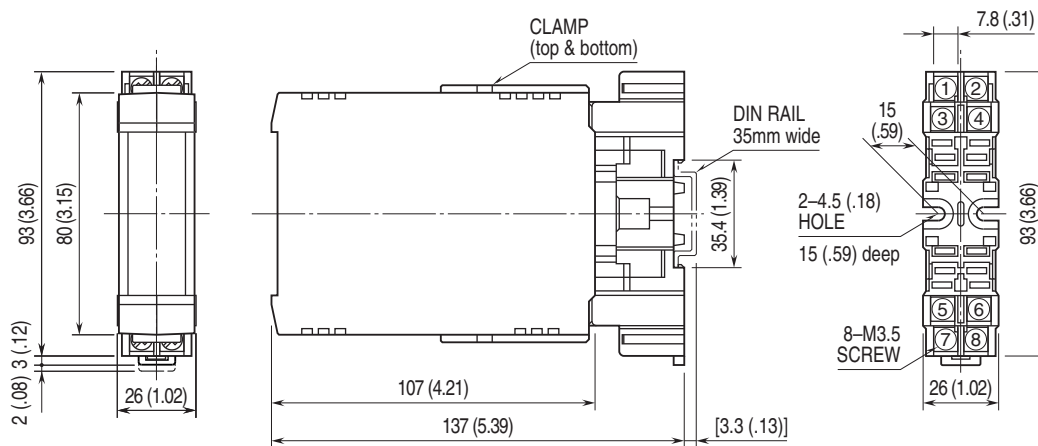
## INSTALLATION

**Current consumption:** Approx. 90 mA  
**Operating temperature:** -5 to +55°C (23 to 131°F)  
**Operating humidity:** 30 to 90 %RH (non-condensing)  
**Mounting:** Surface or DIN rail; Standard Rack Mounting  
 Frame BX-16H available  
**Weight:** 220 g (0.49 lbs)

## PERFORMANCE in percentage of span

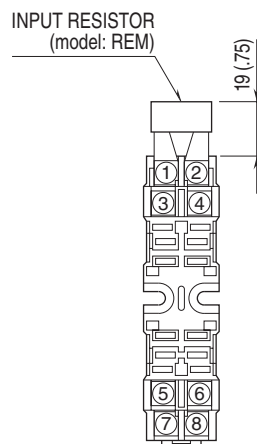
**Accuracy:**  $\pm 0.1\%$   
**Temp. coefficient:**  $\pm 0.015\%/^{\circ}\text{C}$  ( $\pm 0.008\%/^{\circ}\text{F}$ )  
**Response time:**  $\leq 0.5$  sec. (0 - 90 %)  
**Line voltage effect:**  $\pm 0.1\%$  over voltage range  
**Insulation resistance:**  $\geq 100\ \text{M}\Omega$  with 500 V DC  
**Dielectric strength:** 500 V AC @ 1 minute  
 (input to output to power)  
 1500 V AC @ 1 minute (input or output or power to ground)

## DIMENSIONS unit: mm (inch)



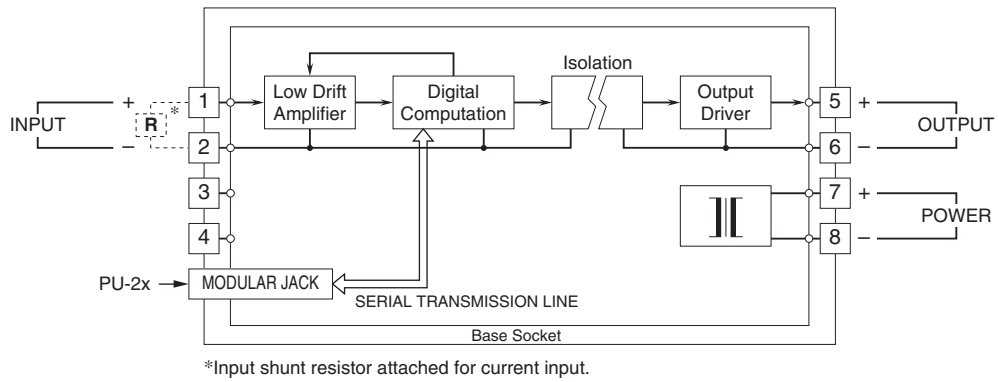
•When mounting, no extra space is needed between units.

## TERMINAL ASSIGNMENTS unit: mm (inch)



Input shunt resistor attached for current input.

**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



Specifications are subject to change without notice.

