

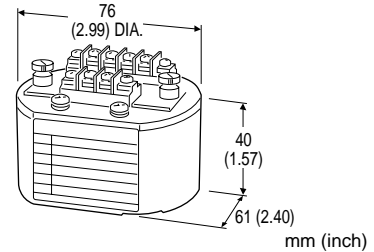
Field-mounted Two-wire Signal Conditioners 6-UNIT

SQUARE ROOT EXTRACTOR

MODEL **6FN**

MODEL & SUFFIX CODE SELECTION

MODEL _____ **6FN-A**
 INPUT _____
 A : 4 – 20mA DC
 OUTPUT _____
 4 – 20mA DC



Functions & Features

- Providing a 4 – 20mA DC signal proportional to the root of input signal
- Low-end cutout
- Rugged enclosure

Typical Applications

- Converting differential pressure to flow

ORDERING INFORMATION

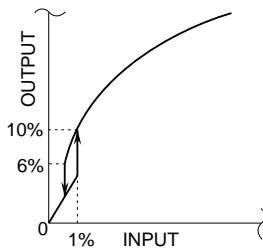
Specify code number. (e.g. 6FN-A)

GENERAL SPECIFICATIONS

Connection: M3 screw terminals
 (nickel-plated steel; torque ≤0.6 N·m)
Housing material: die cast aluminium
Adjustments: 0 – 5% for zero; 100 – 103% for span
 (behind the access cover)
Low-end cutout: approx. 10% (output); curve characteristics shown in the figure below

INPUT & OUTPUT

■INPUT: 4 – 20mA DC
 ■OUTPUT: 4 – 20mA DC
 Voltage drop per loop: ≤5V



INSTALLATION

Supply voltage: voltage required by differential pressure transmitter + 5V

Operating temperature: -5 to +70°C (23 to 158°F)

Operating humidity: 30 to 90% RH (non-condensing)

Mounting: DIN rail with mounting plate A-31;
surface mounting with adapter plate A-01;
spring clip A-02 for 3-inch hub

Dimensions: W76×H52.5×D61 mm (2.99"×2.07"×2.40")
See General Spec. Sheet Figure A-1.

Weight: 220 g (0.49 lbs)

Terminal assignment: See General Spec. Sheet Figure B-1.

PERFORMANCE in percentage of span

Accuracy: $\pm 0.2\%$ (1 – 100% input)

Temp. coefficient: $\pm 0.03\%/^{\circ}\text{C}$ ($\pm 0.02\%/^{\circ}\text{F}$)

Response time: ≤ 0.5 seconds (0 – 90%)

Ripple: 0.1% p-p max.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM