

AHC815 Multiplier / Divider Arithmetic

#### Suitable for any process input

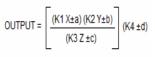
- Supply voltage 21 to 30Vdc
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

## APPLICATION

Mass flow compensation Temperature correction of flow Heat flow calculation Energy consumption calculation

# **TECHNICAL SPECIFICATION**

## FUNCTION



Where the inputs are X, Y and Z. K1, K2, K3, K4 are span constant A, b, c and d are zero constant

## INPUT

DC current / voltage can be specified in the range of: Current up to 100mA max (Passive) Voltage 0.4 to 100V max Typical input: 4 - 20mA (Passive)

# OUTPUT

DC current or voltage can be specified in the range of: Current up to 100mA max in Sink configuration (externally powered)

Current up 22mA max Source configuration (Internally powered)

Voltage any from 0.4 to 20V max @ up to 20mA. Typical output range: 4 - 20mA (Active)

# CONTROLS

Zero / Span: 15 turn potentiometer to calibrate Output.

### INDICATOR

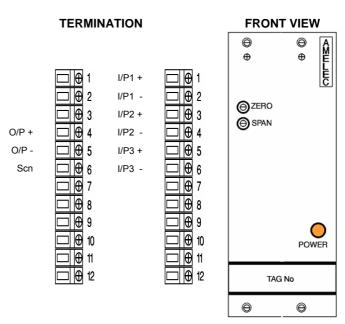
Amber Led power ON indicator

## PERFORMANCE

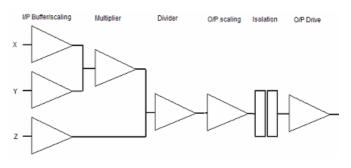
Linearity: < ±0.1% Response time: Typically < 400mS Accuracy: upto ±0.1%

## PROTECTION

Isolation 1000V RMS. Inputs/Output/Supply/Earth Internal Fuse. Input over range up to typically 300%. Output limited typically @120%



#### FUNCTION BLOCK DIAGRAM



### **ENVIROMENTAL CONDITION**

Storage temperature: - 40 to +70  $^\circ C$  Operating Ambient: -15 to +55  $^\circ C$  Relative Humidity: 5 to 95% RH

#### **MOUNTING / DIMENSION**

Card 3U high 8E wide Mounting 19" rack / 84E wide (See rack GA for details) Card weight < 200g

## ADD ON / OPTIONS

DI: Common LCD display for local monitoring H : Hart compatible (Transparent) J : Input injection jack socket P: Test point (Trip set point monitoring) K: RFI protection to IEC801-3 Non standard Power supply ranges available