

AGS1013DN Frequency to Process Transmitter

- ★ Suitable for SIL 1, 2 & 3 applications
- ★ Suitable for SLOW frequency inputs and Process outputs
- ★ Supply Voltages 115Vac ±20%
240Vac ±20%
24Vdc ±2.5V
- ★ RFI Protection to IEC801-3 available
- ★ Amelec Standard 10 year guarantee

Technical Specifications

Input

Designed to accept a continuously moving input signal
Minimum full span 0.25Hz, Maximum 500Hz.

N.B. The unit measures the time interval between consecutive pulses, the inverse of this time being proportional to the input frequency, if the input signal stops the output will remain at the last level awaiting the next pulse to come.

When the unit is initially powered up the output will be at 0 or 100% awaiting for the 1st pulse to arrive

Linearity

Because we are measuring time the unit is more accurate at the lower end, 5 to 40% of span $\pm 0.2\%$
at 100% of span the accuracy is 0.5% of span

Output

Any standard process current or voltage
Current source upto 20mA. Drive voltage 24Vdc
Voltage source upto 10V. Max current 20mA

Isolation

1000V (Input+Output)/Supply/Earth

Environmental Conditions

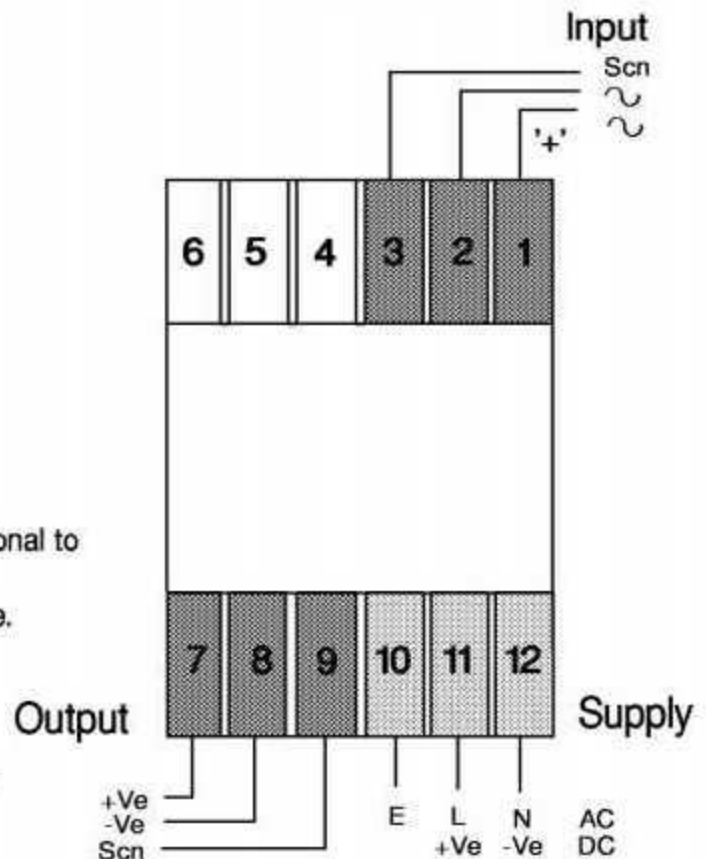
Storage Temperature -40 to 70°C
Operating Ambient -15 to 55°C
Relative Humidity 5-95 % RH

Input Load / Output drive

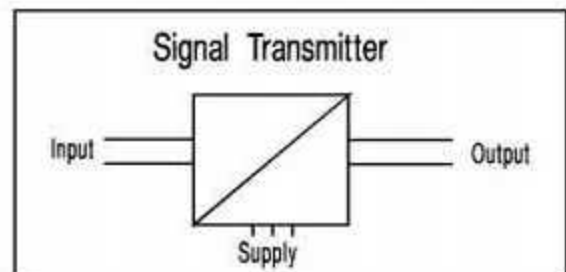
Typical input

45 to 55Hz, 500mV amplitude

WIRING



W-50 H-75 D-110 (mm)



Typical output

Current 4-20mA max load 1200Ω
Voltage 1-5Vdc min load 250Ω