

Var Transducer

VAR95



- Voltage Input 110 VAC, 220 VAC, 380 VAC
- Current Input 1 A, 5 A
- Analog Output 4-20 mA, 0-5 VDC

The Var Transducers VAR95 are used to convert single or three phase unbalance load reactive power into a proportional load independent DC. output. Based fully electronic Time-Division Multiplication measuring principle, the reactive power of a network with any power factor range are linearly produced by Var Transducers output.

Calibration var of rated output

Connection	V=110V		V=220V		V=380V	
	I=1A	I=5A	I=1A	I=5A	I=1A	I=5A
Single Phase	±100var	±500var	±200var	±1000var	-	-
3phase,3wire	±200var	±1000var	±400var	±2000var	±600var	±3000var
3phase,4wire	±200var	±1000var	±400var	±2000var	±600var	±3000var

Note. V= Line voltage

Equation to calculated measuring range

Measuring range = Calibration var x PT ratio x CT ratio

Example 3 phase, 3 wire, PT 220 V/110 V, CT 250/5 A, Calibration var = 1000 W

Measuring range = $1000 \times (220/110) \times (250/5) = 100 \text{ Kvar}$

Specifications

Input

Number of channel: 3 Channels

Input type: Current, Voltage
(1 phase, 3 phase 3 wire, 3 phase 4 wire)

Input range:

Current (1, 5 A AC)

Voltage (110, 220, 380 VAC (Line voltage for 3 phase))

Power consumption:

< 0.2VA for input current

<0.4VA for voltage input

Frequency: 50 Hz.

Analog Output

Number of channel: 1 Channel

Output type: Current, Voltage

Output range:

Current Max (-)1 to 1 mA (Load Resistance 10 K Ω)

Current Max 4 to 20 mA (Load Resistance 600 Ω)

Voltage Min 0 to 10 mVDC (Load Resistance 500 Ω)

Voltage Min 0 to 100 mVDC (Load Resistance 500 Ω)

Ordering Information: Specify connection, Input voltage, Input current, Output, Power supply

Example VAR95/3 phase 4 wire/380 VAC./5A/4-20 mA/220 VAC

Package Checklist

1. VAR95

Voltage Min 0 to 1 VDC (Load Resistance 500 Ω)

Voltage Min 0 to 5 VDC (Load Resistance 1 K Ω)

Voltage Min 1 to 5 VDC (Load Resistance 1 K Ω)

Voltage Min 0 to 10 VDC (Load Resistance 2 K Ω)

Linearity: < $\frac{3}{4}$ 0.5% of span

Power Requirements

Power Supply: 110, 220 VAC

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W132 x H132 x D162 mm.

Mounting: Wall mount (Din Rail Optional)

Wiring: Screw terminals

Warranty

Warranty Period: 5 year