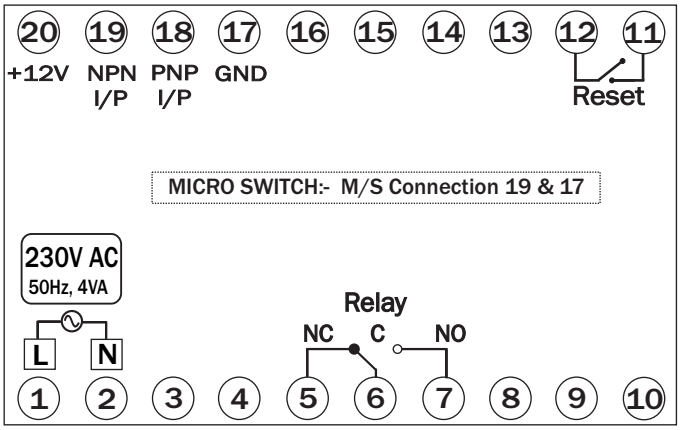
OPERATING MANUAL
PROGRAMMABLE COUNTER
PC-1044

Technical Specification

Model	PC		
Display	UPPER:- 4 Digit 7 seg 0.4",red LED Display LOWER:- 4 Digit 7 seg 0.3",green LED Display		
Size(HXWXD)	96 X 96 X 50 mm		
Panel Cutout	92 X 92 mm		
Input	NPN/PNP Proximity Selectable & Micro Switch		
Output	1 relay, 1 C/O contact, 230V AC, 5A		
Memory	Selectable Yes/No		
Reset	Front Reset Key		
Power Supply	230V AC, 60 Hz, Approx 4VA		
Protection Level (As per request)	IP-65(Front side) AS per IS/IEC 60529:2001		
Operating Temperature	0° C To 55° C	Relative Humidity	Up to 95% RH Non Condensing

Connection Diagram

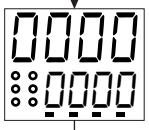


Parameter Menu

Key Operation

1) Press ⊲ key, Shift to the next digit
2) Press ∧ key, Increase individual digit value

Power on



Process Count
Set Count

Press SET/ENT key

Set value of Count
Range : 0001 To 9999 Count

Press SET/ENT key

Set Relay on time value
Range : 00.0 - 99.9 sec.

Press SET/ENT key

Enter “50” For parameter Setting

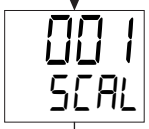
Press SET/ENT key

Decimal Point
(Range: 000.0 /0000)
Change by ∧ key.

Press SET/ENT key

Multiplication or Divide Factor to shows count/pulse
Change by ∧ key.

Press SET/ENT key



Enter Scale Factor Value
(Range: 001 to 999)
Change by ∧ key.

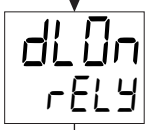
Press SET/ENT key

Count Direction UP/DOWN
Change by ∧ key.

Press SET/ENT key

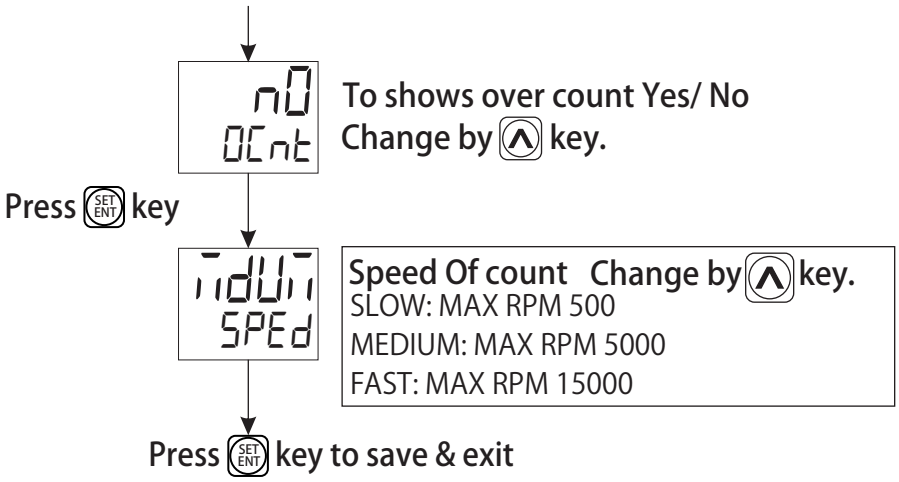
Memory Yes/ No
Change by ∧ key.

Press SET/ENT key



Relay Instant on or Delayed On.
Change by ∧ key.

Press SET/ENT key



Working

1). When pulse comes from sensor, upper display indicates increment in 'COUNT' in Instrument. Lower Display indicates 'Set Count Value'.
2). For Manual Mode, set time = 00.0 sec. and for Auto Reset Mode, set time = 00.1 to 99.9 sec.
3). When process value = Set value, Relay energies. Relay remains ON for Auto Reset Time Relay turns off after completion of time. If time is set at 00.0 sec. then relay remains ON until RST key is pressed.
4). If there is a power failure the last reading is stored in the memory and Counter starts resume counting from the last stored value, when power ON.
5). To restart Counting or to Reset press RST key. Upper display will show 0000 and the counting will restart.
6). The proximity switch give pulse to counter every time the metal on the roller is sensed.

Safety Precautions

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment .

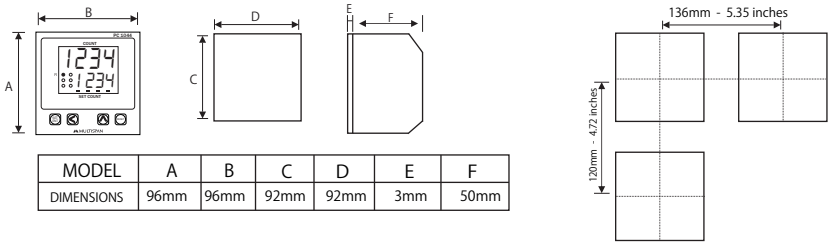
=> Read complete instructions prior to installation and operation of the unit.

WARNING : Risk of electric shock.

Warning Guidelines

1) To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
2) To reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
3) Cable used for connection to power source, must have a cross section of $1mm^2$ or greater. These wires should have insulations capacity made of at least 1.5kV.
4) When extending the thermocouple lead wires, always use thermocouple compensation wires for wiring for the RTD type, use a wiring material with a small lead resistance (5Ω max per line)and no resistance differentials among three wires should be present.
5) A better anti-noise effect can be expected by using standard power supply cable for the instrument.

Mechanical Installation



MODEL	A	B	C	D	E	F
DIMENSIONS	96mm	96mm	92mm	92mm	3mm	50mm

1) Prepare the panel cutout with proper dimensions as show above.
2) Fit the unit into the panel with the help of clamp given.
3) The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oils steam, or other unwanted process by products.
4) Use the specified size of crimp terminal (M3.5 screws) to wire the terminal block. Tightening the screws on the terminal block using the tightening torque of the range of 1.2 N.m.
5) Do not connect anything to unused terminals.

Product improvement and upgrade is a constant procedure. So for more updated operating information and support, contact our Helping : 70 46 319 319 or Email at voltexcontrols@gmail.com