

Process Indicators

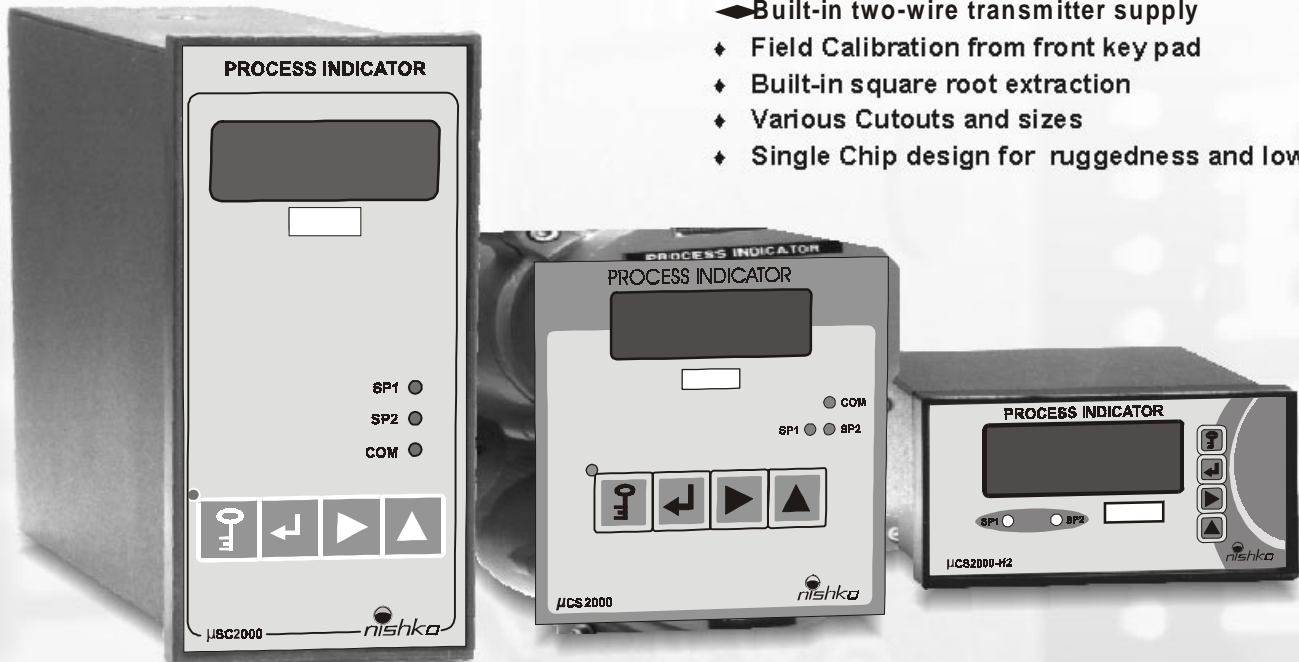
Series μ CS 2000

nishka



SALIENT FEATURES :

- ◆ Microcontroller Based Fully Programmable
- ◆ Universal Input
- ◆ Available with large display sizes
- ◆ Upto two programmable set-points
- ◆ Isolated Retransmission
- ◆ Built-in two-wire transmitter supply
- ◆ Field Calibration from front key pad
- ◆ Built-in square root extraction
- ◆ Various Cutouts and sizes
- ◆ Single Chip design for ruggedness and low cost



The μ CS 2000 series Digital Process Indicators are precision instruments used for display of Linear / Non linear process parameters. The same unit can be configured at site to accept inputs from two-wire, three-wire or four-wire transmitters or temperature sensors. The thermocouples and RTD's are linearised. Two programmable set-points and isolated retransmission output is also provided.

TECHNICAL SPECIFICATIONS

Input	: 1) 4 to 20 mA DC, 0 to 20 mA DC (Input Impedance < 200 ohm) 2) 1 to 5 V DC, 0 to 5 V DC (Input Impedance > 2K ohm) 3) RTD, PT-100, 3 wire 4) Thermocouples J type, K type (others on request) (Input Impedance > 1M ohm)	
Range	: Calibrated as per customers requirement from front key pad	
Linearization	: Provided through software	
Display	: 4 digit, 1/2" red LED (1" display optional)	
Set-points	: 2 nos programmable from front key pad	
Output Relays	: 1 NO + 1 NC per set-point, rated at 230 V AC, 5 A resistive load	
Transmitter Supply	: 24 V DC, 30 mA	
Retransmission Output	: 4 to 20 mA (Isolated) in 600 ohm load (max), any other on request	
Programming	: All parameters programmable by splash proof front key pad	
Accuracy	: < +/- 0.2% of FSD	
Supply	: 230 V AC, 50 Hz (others on request)	
Mounting	: Flush on panel	
Dimensions	: Cutout 1) 92mm X 92mm 2) 138mm(H) X 68mm(W) 3) 92mm(W) X 45mm(H)	Bezel 1) 96mm X 96mm 2) 144mm(H) X 72mm(W) 3) 96mm(W) X 48mm(H)
Depth	: 150mm	
Operating Temperature	: 0 to 50 deg C	
Temperature Coefficient	: 0.015% / deg C	
Humidity	: 90% maximum (non-condensing)	

Process Indicators

Series μ CS 2000



FLAMEPROOF INDICATORS WITH TWO SET-POINTS

Series μ CS 2000-EX

The μ CS 2000-EX is suitable for field mounting in hazardous areas and can be fully programmed without opening the enclosure. The double compartment enclosure having separate compartment for terminals is easy for mounting and maintenance.

Mounting : Field, wall
 Enclosure : Cast Aluminium
 Protection : Flameproof Gr IIA, IIB (IIC on request),
 weatherproof IP65
 Dimensions : 350mm(H) X 188mm(W) X 120mm(D)
 Programming : From front without opening enclosure

FLAMEPROOF INDICATORS

Series 2200-EX

Mounting : Field, 2" pipe
 Enclosure : Cast Aluminium
 Protection : Flameproof Gr IIA, IIB (IIC on request),
 weatherproof IP65
 Dimensions : 102mm(dia) X 151mm(depth)



LOOP POWERED INDICATORS

Series 2211-EX or IS 2211

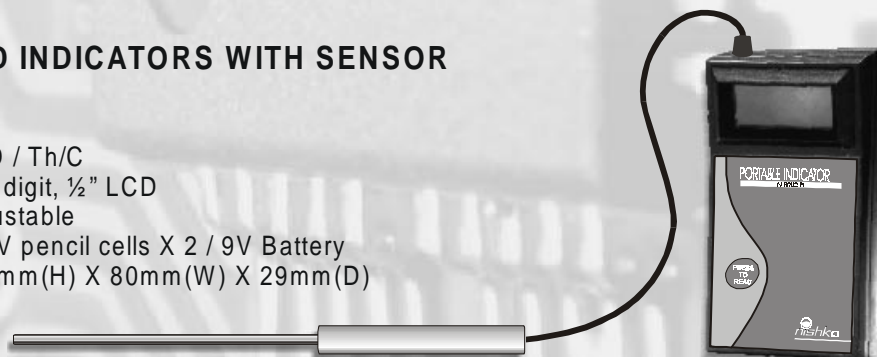


Input : 4 to 20 mA
 Range : Adjustable at site in any engineering unit
 Display : 3 1/2 digit, 1/2" LCD
 Loop drop : < 1 volt
 Mounting : Field, 2" pipe or panel
 Cutout (for panel mounting) : 92mm(W) X 45mm(H) Depth – 100mm
 Enclosure (for field mounting) : Cast Aluminium
 Protection : Flameproof Gr IIA, IIB (IIC on request),
 weatherproof IP65
 Dimensions : 102mm(dia) X 151mm(depth)
 Or Intrinsically Safe (IS2211)
 CMRI certificate no : CMRI/TC/H878 dtd. 24/08/95

PORTABLE HANDHELD INDICATORS WITH SENSOR

Series N8000 PI

Input : RTD / Th/C
 Display : 3 1/2 digit, 1/2" LCD
 Range : Adjustable
 Powering : 1.5 V pencil cells X 2 / 9V Battery
 Dimensions : 145mm(H) X 80mm(W) X 29mm(D)



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