

PRATHAM

Embedded solutions

PRODUCT INFORMATION

Contact Address : S.NO 256 PLOT NO -14 KHESE PARK LOHEGAON PUNE-411032 TEL : 020-26683279 / 9422523598
E-mail : embedded.pratham@gmail.com



FLOW INDICATING TOTALISER CUM BATCHER / CONTROLLER

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TECHNICAL SPECIFICATION :-

MICROCONTROLLER BASED INTELLIGENT EQUIPMENT

MODEL : FT-01

INPUT : 4 – 20 mA / voltage / frequency (pl. specify.)

**DISPLAY : 0.3" 4 digit for Flow rate
0.3" 8 digit for Totalisation.**

**ALARMS : 2 relay contacts configurable on flow or totalisation.
rated at 230V AC 5A resistive load .**

PROGRAMMING : 4 key keypad for programming the parameter

OUTPUT 1 : Isolated 4- 20mA proportional to flow rate.

OUTPUT 2 : RS485 Modbus RTU

AUXILLARY POWER : 24V @30mA

OPERATING TEMPERATURE : 55 DEG C

HUMIDITY : MAX 90% non condensing.

MOUNTING : Panel

CUTOUT : 92X92

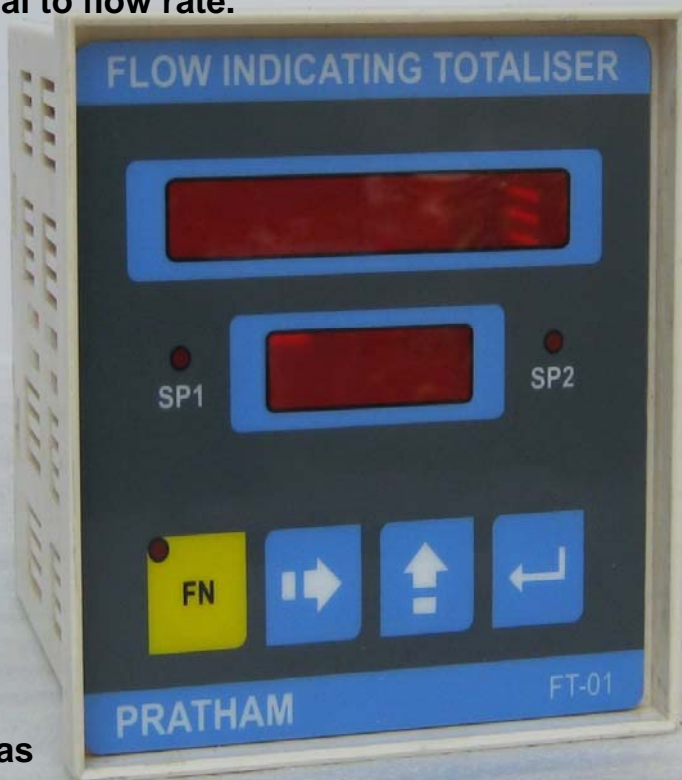
DEPTH : 85mm

Product information :

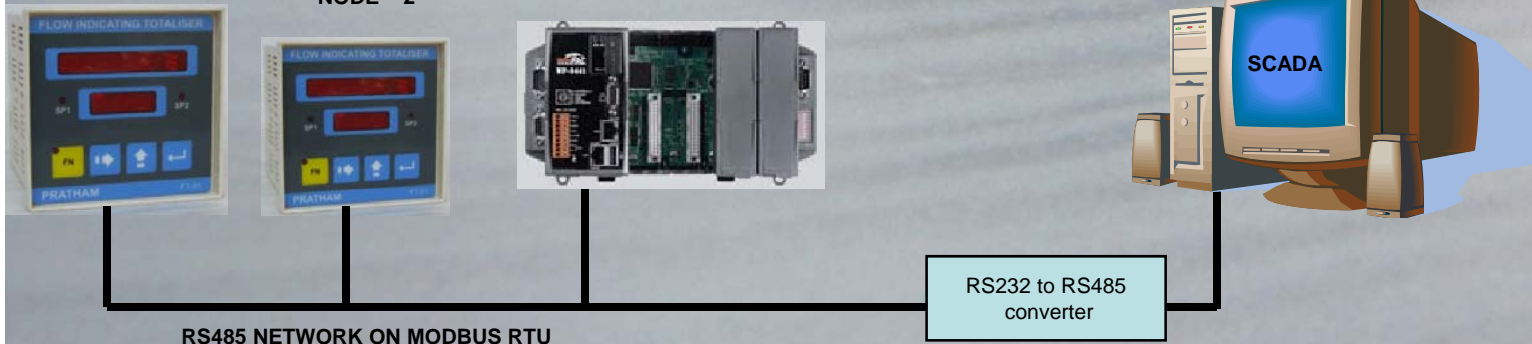
**FT-01 is build around a microcontroller
With front key pad programming for all
Operating parameters**

**You can connect the process to any PLC
Or Scada by integrating FT-01 on your
Existing RS485 network or on separate
Network by MODBUS RTU Protocol .**

**You can configure in that case through
SCADA by using appropriate commands as
per Modbus rtu protocol.**



COMMUNICATION SCHEME : EXISTING PLC SYSTEM



RS485 NETWORK ON MODBUS RTU

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UNIVERSAL INDICATING CONTROLLER

TECHNICAL SPECIFICATION :-

MICROCONTROLLER BASED INTELLIGENT EQUIPMENT

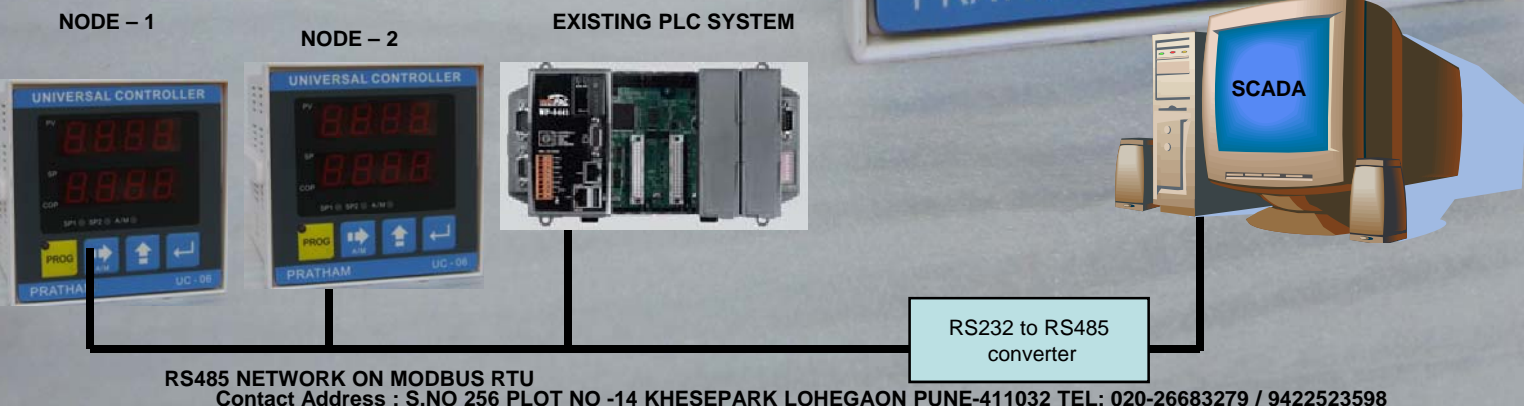
- MODEL : UC-06
- INPUT : 4 – 20 mA / RTD / ThC (J , K)
- DISPLAY : 0.5" 4 digit for PV
0.5" 4 digit for Setpoint or eng unit
- ALARMS : 2 relay contacts configurable on process.
rated at 230V AC 5A resistive load .
- PROGRAMMING : 4 key keypad for programming
the parameter
- OUTPUT 1 : Isolated 4- 20mA proportional to PV.
- OUTPUT 2 : RS485 Modbus RTU
- AUXILLARY POWER : 24V @30mA
- OPERATING TEMPERATURE : 55 DEG C
- HUMIDITY : MAX 90% non condensing.
- MOUNTING : Panel
- CUTOUT : 92X92
- DEPTH : 85mm

Product information :

UC-06 is build around a microcontroller
With front key pad programming for all
Operating parameters
You can connect the process to any PLC
Or Scada by intergrating UC-06 on your
Existing RS485 network or on separte
Network by MODBUS RTU Protocol .
You can configure in that case through
SCADA by using appropriate commands as per
Modbus rtu protocol.



COMMUNICATION SCHEME :



SIGNAL ISOLATOR / SPLITTER

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TECHNICAL SPECIFICATION :- MICROCONTROLLER BASED INTELLIGENT EQUIPMENT

MODEL : SC-04
INPUT : 4 – 20 mA / RTD (PL. SPY)
DISPLAY : 0.5" 4 digit for PV
PROGRAMMING : 4 key keypad for programming the parameter
OUTPUT 1 : Isolated 4- 20mA proportional to PV.
OUTPUT 2 : Isolated 4-20mA proportional to PV.
AUXILLARY POWER : 24V @30mA
OPERATING TEMPERATURE : 55 DEG C
HUMIDITY : MAX 90% non condensing.
MOUNTING : Din rail
CUTOUT : 70(W)X75(H)
DEPTH : 110mm

Product information :

SC-04 is build around a microcontroller
With front key pad programming for all
Operating parameters.



APPLICATION EXAMPLE :

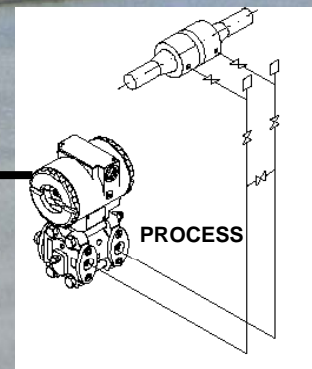
PLC SYSTEM



OPTICALLY ISOLATED FROM
PROCESS AND SPLITED SIGNAL



SECOND SYSTEM
FOR LOCAL INDICATION OR CONTROL.



UNIVERSAL INDICATING CONTROLLER

TECHNICAL SPECIFICATION :-

MICROCONTROLLER BASED INTELLIGENT EQUIPMENT

MODEL : UC-04
INPUT : 4 – 20 mA / RTD
DISPLAY : 0.5” 4 digit for PV
ALARMS : 2 relay contacts configurable on process.
rated at 230V AC 5A resistive load .

PROGRAMMING : 4 key keypad for programming the parameter

OUTPUT 1 : RS485 Modbus RTU

AUXILLARY POWER : 24V @30mA

OPERATING TEMPERATURE : 55 DEG C

HUMIDITY : MAX 90% non condensing.

MOUNTING : Panel OR flame proof

CUTOUT : 92(W)X48(H)

DEPTH : 120mm



Product information :

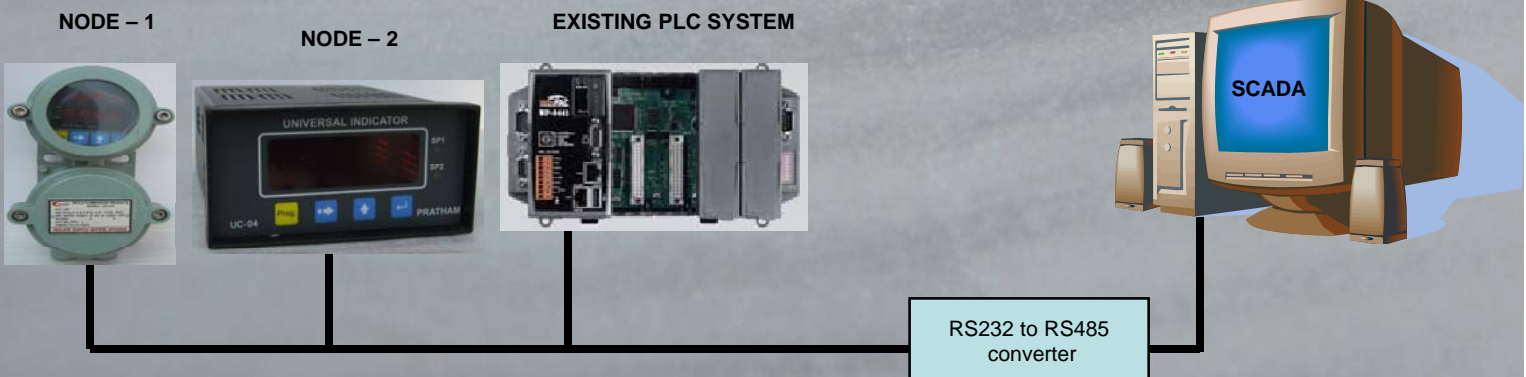
UC-04 is build around a Microcontroller With front keypad programming for all Operating parameters.

You can connect the process to any PLC Or Scada by integrating UC-04 on your existing RS485 network or on separate network by MODBUS RTU Protocol.

You can configure in that case through SCADA by using appropriate commands as per Modbus rtu protocol.



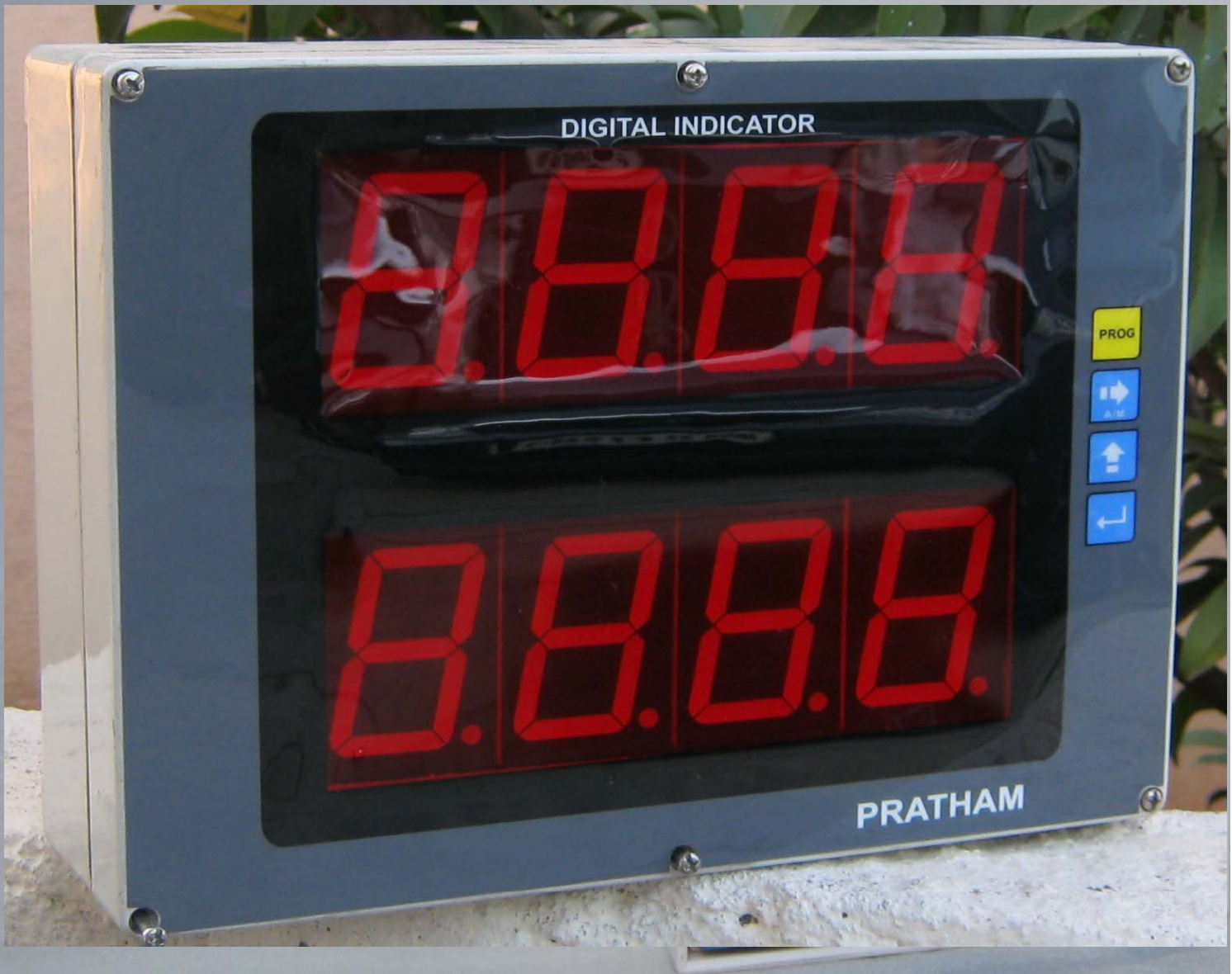
COMMUNICATION SCHEME :



JUMBO DISPLAY UNITS
2" AND 4" LED MODULES

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TECHNICAL SPECIFICATION :-

MICROCONTROLLER BASED INTELLIGENT EQUIPMENT

MODEL : JC-04

INPUT : 4 – 20 mA / RTD

DISPLAY : 2" 4 digit for PV

ALARMS : 2 relay contacts configurable on process. Rated at 230V AC 5A resistive load

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**FLOW INDICATING TOTALISER CUM
BATCHER / CONTROLLER
FLAME PROOF/ EX-PROOF**

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TECHNICAL SPECIFICATION :-

MICROCONTROLLER BASED INTELLIGENT EQUIPMENT

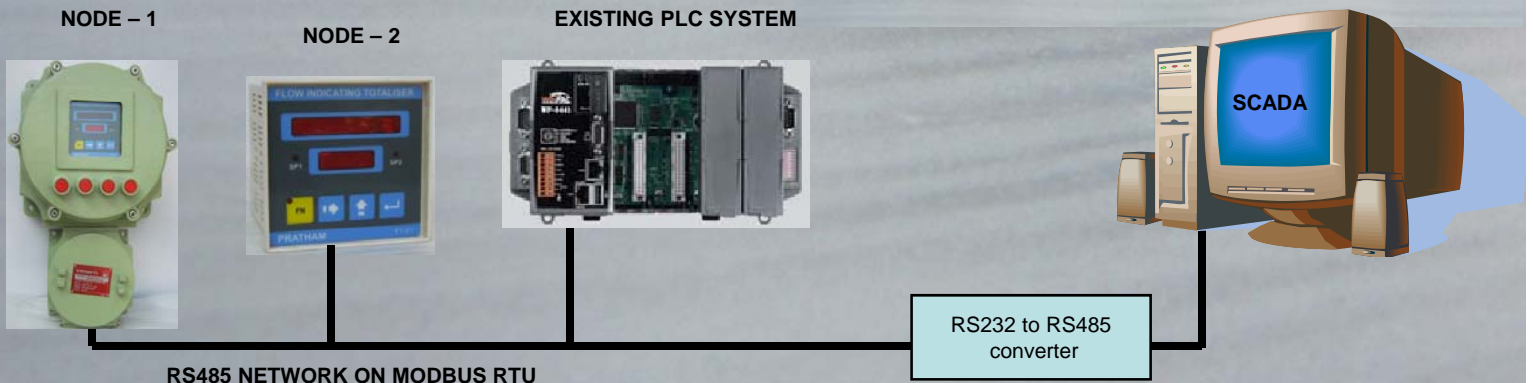
- MODEL : FT-01-FLM**
- INPUT : 4 – 20 mA / voltage / frequency (pl. specify.)**
- DISPLAY : 0.3” 4 digit for Flow rate
0.3” 8 digit for Totalisation.**
- ALARMS : 2 relay contacts configurable on flow
or totalisation. Rated at 230V AC 5A
resistive load .**
- PROGRAMMING : 4 key keypad for programming**
- OUTPUT 1 : Isolated 4- 20mA proportional to flow rate.**
- OUTPUT 2 : RS485 Modbus RTU**
- AUXILLARY POWER : 24V @30mA**
- OPERATING TEMPERATURE : 55 DEG C**
- HUMIDITY : MAX 90% non condensing.**

Product information :

FT-01 is build around a microcontroller
With front key pad programming for all
Operating parameters
You can connect the process to any PLC
Or Scada by intergrating FT-01 on your
Existing RS485 network or on seperate
Network by MODBUS RTU Protocol .
You can configure in that case through
SCADA by using appropriate commands as
per Modbus rtu protocol.



COMMUNICATION SCHEME :



FLAME PROOF ANNUNCIATION SYSTEM

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TECHNICAL SPECIFICATIONS:

Model : CUS-ANNUN-A

- This product is Custom made as per requirement of the Customer mainly no of windows etc
- .Can be integrated to PLC /SCADA .



PROCESS LOGGER

SALIENT FEATURES :

- 16 channel Universal Input.
- Touch Screen operation
- Data logging in USB stick
- On demand Connectivity to external system on MODBUS TCP/IP.
- Build in real time operating system for crash proof operation.
- Wall mounting / Back of panel mounting models.

Technical specifications :

Model : CUS-06-DL
Channels : 16 NOS UNIVERSAL
Supply : 230V AC
Logging media : USB Stick



PRODUCT INFORMATION :

Designed and build around a true microprocessor with real time operating system for crash proof operation. seperate signal conditioning for each channel offers a true universal input and better reliability. On request additional output for communication can be given on modbus TCP/IP or user can use to view online data through any internet browser as module can act as a web server. It is possible to connect through a wifi network to view data on mobile phone.

UNIVERSAL I/O CARDS

SALIENT FEATURES :

- 16 channel Universal Input.
- 20X4 line LCD display
- On demand Connectivity to external system on MODBUS TCP/IP.
- Build in real time operating system for crash proof operation.
- Wall mounting / Back of panel mounting models.

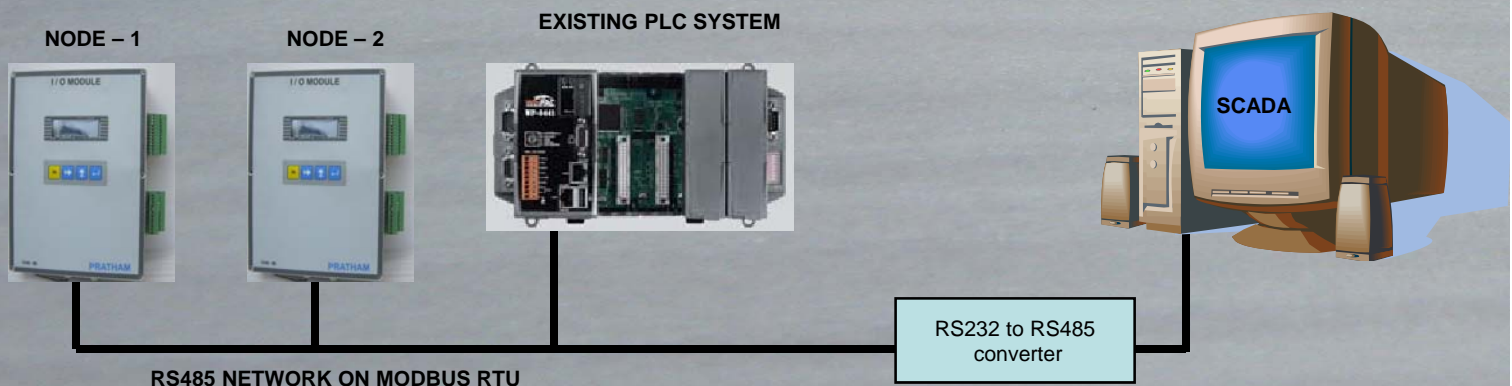
Technical specifications :

Model	: CUS-06
Channels	: 16 NOS UNIVERSAL
Display	: 20X4 line LCD Backlit blue
Communication	: RS485 MODBUS RTU or MODBUS TCP/IP on ETHERNET
Supply	: 230V AC
Programming	: From 4 key front keypad
Alarms	: optional on demand upto 2 relay per channel on extended relay modul
Mounting	: wall
Dimensions	: 300(h) x 230(w) x 85(d).



PRODUCT INFORMATION :

Designed and build around a true microprocessor with real time operating system for crash proof operation. seperate signal conditioning for each channel offers a true universal input and better reliability. On request additional output for communication can be given on modbus TCP/IP or user can use to view online data through any internet browser as module can act as a web server. It is possible to connect through a wifi network to view data on mobile phone.



STEAM / GAS FLOW METERING SYSTEM WITH TEMPERATURE PRESSURE COMPENSATION.

TECHNICAL SPECIFICATION :-

MICROPROCESSOR BASED INTELLIGENT EQUIPMENT

MODEL : CUS-06-MASS

INPUT : 1. 4 – 20 mA FROM DP/ FLOW TRANSMITTER

2. 4- 20 mA from temperature transmitter

3. 4- 20 mA from pressure transmitter

(input 3 required only for super heated steam and gas flow.)

DISPLAY : 20X4 line LCD backlit blue

ALARMS : 2 relay contacts configurable on flow or totalisation. Rated at 230V AC 5A resistive load .

PROGRAMMING : 4 key keypad for programming

OUTPUT 1 : RS485 Modbus RTU

AUXILLARY POWER : 24V @30mA

OPERATING TEMPERATURE : 55 DEG C

HUMIDITY : MAX 90% non condensing.

Product information :

CUS-06-MASS is build around a microprocessor with front key pad programming for all operating parameters.

You can connect the process to any PLC or Scada by intergrating CUS-06 on your existing RS485 network or on seperate network by MODBUS RTU Protocol .

You can configure in that case through SCADA by using appropriate commands as per Modbus rtu protocol.

