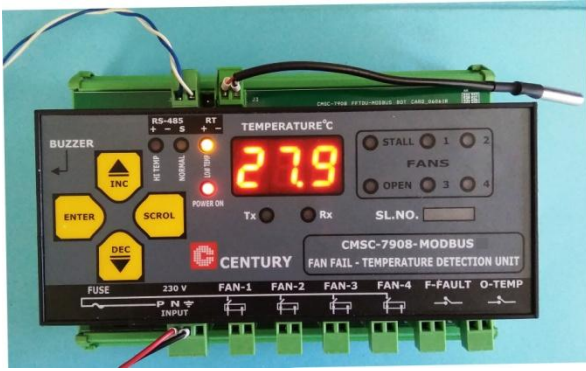




Equipment



PC Software

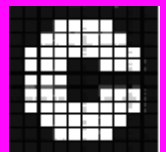
Fan Failure and Temperature Detection Unit (FFTDU)

Model No: CMSC-7908-MODBUS

Features:

- Measures ambient temperature.
- 3 Seven Segment displays to indicate ambient temperature.
- Ten LEDs:
 - Four LEDs to indicate fault status of individual Fans
 - One LED to indicate FAN STALL - common to all fans.
 - One LED to indicate FAN OPEN - common to all fans
 - One LED to indicate POWER - ON
 - One LED to indicate HIGH – Temperature
 - One LED to indicate NORMAL
 - One LED to indicate LOW – Temperature
- Six Relays :
 - Four Relays to control fans.
 - One Relay to indicate OPEN/STALL condition.
 - One Relay to indicate Over Temperature condition.
- Four KEYS to program Temperature Set value & other functional parameters.
- Buzzer to annunciate over temperature.
- Works between 88V AC to 257V AC.
- Mounted on standard DIN RAIL profile.
- Assured galvanic isolation for the user interface keypad even when Phase and Neutral are interchanged.
- Weighs less than 1Kg.
- Measures 45mm X 78mm X 180 mm (excluding DIN rail mount).

FAN FAIL TEMPERATURE DETECTION UNIT



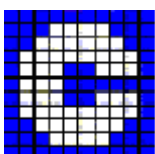
CMSC-7908

CENTURY METERING SYSTEMS & CONTROLS

Phone: 080-28371316/15

E-mail: century.metering@gmail.com

Website: www.centurymetering.in



Advanced Features:

- Measures FAN parameters in RUN/STALL condition.
- Programmable FAN voltage of 230V / 110V.
- Programmable NO/NC relay operation (Fault Relays).
- Facility to characterize individual fan motors.
- Evaluates the fan RUN/STALL conditions under varying supply voltages.
- Saves power and heating of impedance protected motors.
- Rechecks the stalled motor condition once a minute.
- Puts OFF the relays in case 230V is applied inadvertently to protect 110V motors.

SPECIFICATIONS

- **OPERATING VOLTAGE** : 88 V to 257 V.
- **OPERATING TEMPERATURE RANGE** : 0 to 85 deg C
- **TEMPERATURE MEASUREMENT**

	<i>Semiconductor Temperature Sensor</i>
RANGE	0 to 70 deg C
ACCURACY	+/- 2 deg C

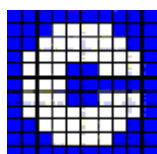
Ordering Information:

Model No.	Description
CMSC 7773/4-20mA	With Semiconductor Temp. Measurement & 4-20mA O/P
CMSC 7773	With Semiconductor Temp. Measurement & Without 4-20mA O/P
CMSC 7773-RoHS/4-20mA	With Semiconductor Temp. Measurement & 4-20mA O/P
CMSC 7773-RoHS	With Semiconductor Temp. Measurement & Without 4-20mA O/P
CMSC 7908-MODBUS	With MODBUS & Semiconductor Temp. Measurement
CMSC 7913/4-20mA	With Semiconductor Temp. Measurement, Without Stall & with 4-20mA O/P
CMSC 7913	With Semiconductor Temp. Measurement & Without Stall
CMSC 7913 – MODBUS	With Semiconductor Temp. Measurement & MODBUS
CMSC 7916 – DC	With Semiconductor Temp. Measurement & With Stall
CMSC 7795 – DC	Without Display, Without Semiconductor Temperature, With Stall

FAN FAIL TEMPERATURE DETECTION UNIT

CMSC-7908

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PC-Software:

- The CMSC-7908 FFTDU PC software can be download from the given URL
<http://remote.centurymetering.in/ExeDownloader/Login.aspx>

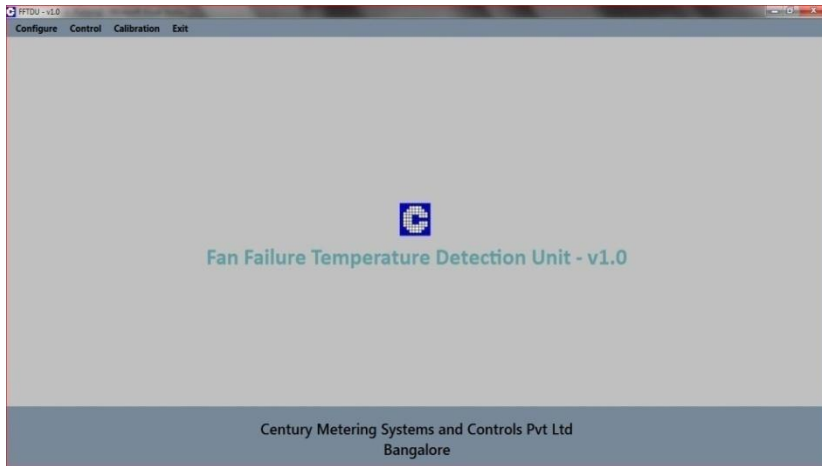


Fig-1: Homepage

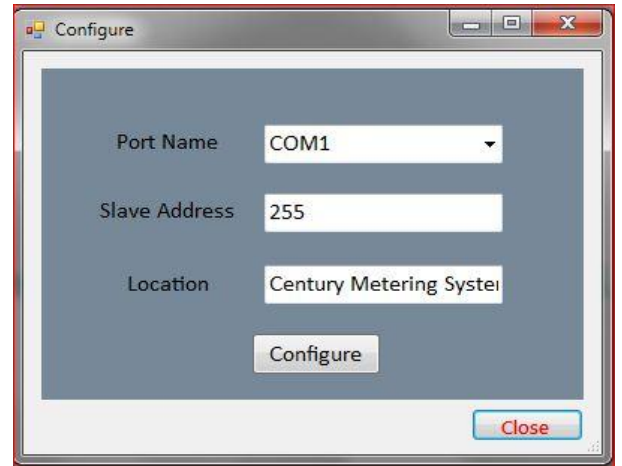


Fig-2: Configure



Fig-3: Control (Scan/Status/Setup)

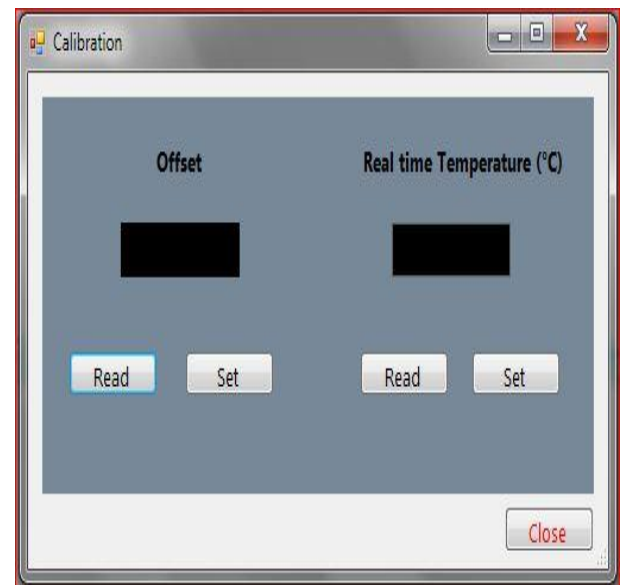
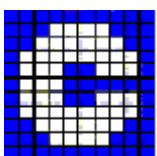


Fig-4: Calibration



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MODBUS REGISTRY (CMSC 7908-S-MODBUS)

SL No.	Address	Register	
		HB	LB
1	00 00h	Low Set Value*10 (2 Bytes)	
2	00 01h	High Set Value *10 (2 Bytes)	
3	00 02h	High Hysteresis Value*10 (HB)	Low Hysteresis Value*10 (LB)
4	00 03h	FAN_ Status -1 (HB)	FAN_Status-0 (LB)
5	00 04h	FAN_ Status -3 (HB)	FAN_ Status -2 (LB)
6	00 05h	Room Temperature*10 (2 Bytes)	
7	00 06h	FAN State – 1 (HB)	FAN State – 0 (LB)
8	00 07h	FAN State – 3 (HB)	FAN State – 2 (LB)
9	00 08h	Sensor Status(HB)	Buzzer Status(LB)
10	00 09h	Relay Type(HB)	Fan Type(LB)
11	00 0Ah	Fan Selection(HB)	Buzzer selection(LB)
12	00 0Bh	(Special LED's)High Temperature, Fan Normal, Low Temp LED	

FAN Status:

Bit-7	Bit-6	Bit-5	Bit-4	Bit-3	Bit-2	Bit-1	Bit-0
NORMAL	OPEN	STALL	Reserved	Reserved	Reserved	Reserved	Reserved

FAN State:

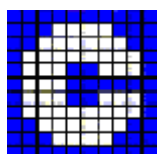
- 0 - DISABLED
- 1 - ENABLED
- 2 - MONITOR PEAK
- 3 - FAN RUNNING

Buzzer Status:

0x01 - Buzzer OFF
0x00 - Buzzer ON

Sensor Status:

0x01 - Sensor Fault
0x00 - No Fault

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Fan Type : 0 - 230V 1 - 110V
Relay Selection : 0x01 -> NC 0x00-> NO
Buzzer Selection : 0x40-> Enable 0x00-> Disable

Fan Selection :

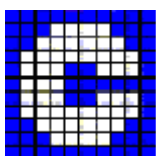
Bit-7	Bit-6	Bit-5	Bit-4	Bit-3	Bit-2	Bit-1	Bit-0
Reserved	Reserved	Reserved	Reserved	FAN-4	FAN-3	FAN-2	FAN-1

1 -> Fan Enabled **0** -> Fan Disabled

Special LEDS:

Bit-7	Bit-6	Bit-5	Bit-4	Bit-3	Bit-2	Bit-1	Bit-0
Reserved	Reserved	Reserved	Reserved	Reserved	High Temp	Fan Norm	Low Temp

Bit-0: **1** - Low Temp LED OFF **0** - Low Temp LED ON
Bit-1: **1** - Fan Normal LED OFF **0** - Fan Normal LED ON
Bit-2: **1** - High Temperature LED OFF **0** - High temperature LED ON



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