

MCM-19 MULTICHANNEL MONITOR



- **FEATURES**
- **Up to 12 channel in a single 19" rack mount unit fully expandable**
- **4 digit displays and dual alarm system for each channel**
- **PV and SV display units**
- **PT 100 and thermocouple inputs available**
- **Proven reliability at low cost**





▪ GENERAL DESCRIPTION

The MCM-19 is a multichannel monitor designated for the running temperatures of rotating machinery in order to determine when maintenance work is to be carried out. It is mounted in a 10" rackmount unit of modular design and incorporates a master card, providing latching facilities in the trip position and a time delay.

An override facility allows individual units to be removed without tripping the machine being monitored while reset button enables the machine to operate after being latched out.

Two LEDs are fitted, one giving the indication for override and one as indication for trip condition. The MCM-19 weights approximately 3kg and operates from 110/220VAC 50/60 Hz supply over the temperature range 0deg.C, 45 to 85% RH.

▪ SPECIFICATIONS PER CHANNEL

INPUT

Thermocouple K, J, R, S, B, E, T (EC/ANSI), N, PLII (NBA) and W5Ee/W26Re (ASTM), RTD Pt100 3-wire system (IEC/DIN).

EFFECT By EXTERNAL RESISTANCE

Approx. 0,26 microvolt/Ohm (TC input)

INPUT LEADWIRE RESISTANCE

Approx. 0,01 (%Ohm) of reading, but within 10 Ohms per lead (RTD).

ACTION AT INPUT DISCONNECTION

Up-scale for both T/C and RTD inputs. Down – scale is available for T/C input as an option.

SAMPLING TIME

0,5 second

SETING ACCURACY

+/- (0,5% of SV + 1 digit) or +/- 3deg.C, whichever is larger for T/C input and +/- (0,5% of SV + 1 digit) or +/- 0,8deg.C whichever is larger for RTD input.

R, S, inputs: +/-6deg.C between 0-399deg.C

B input. Accuracy is not guaranteed between 0 – 399deg.C

DISPLAY ACCURACY

Same as setting accuracy

INSULATION RESISTANCE

More than 20 MOhms (500VDC) between input and ground terminals.

More than 20 MOhms (500VDC) between power and ground terminals.

DIELETERIC STRENGTH

1000VAC for one minute between input and ground terminals.

15000VAC for one minute between power and ground terminals.

TEMPERATURE ALARM

Selectable from deviation high, low, high/low band and process high, low alarms. Alarm hysteresis 2deg.C or 2deg.C as standard.

ALARM OUTPUT

Relay output 250VAC 1A (resistive load). 1A contact.

POWER CONSUMPTION

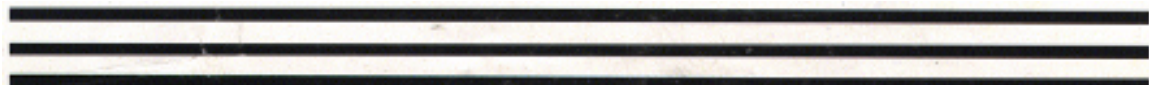
Less than 17VA

EFFECT OF POWER FAILURE

Not affected by power failure shorter than 20 msec, otherwise reset to initial state.

MEMORY BACKUP

Non-volatile memory.



MODULE FRONT PANEL DISPLAY



- ① PV display unit
- ② SV display unit
- ③ Indicator lamp
- ④ SET key
- ⑤ Cursor shift key
- ⑥ UP/DOWN keys

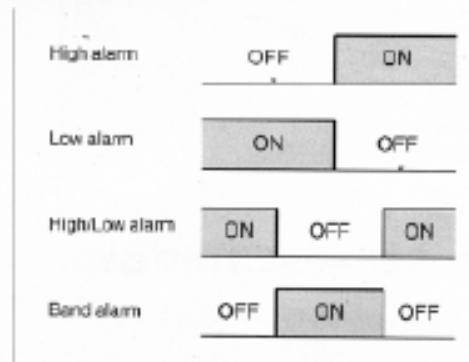
MODEL AND SUFFIX CODE

Model	Suffix	Description
C100		48 x 48 mm size
Control	F	PID action with AT (reverse action)
	D	PID action with AT (direct action)
Input*Range		See range and input table
Output	M	Relay output
	V	Voltage pulse output
Alarm (ALM1)		See alarm table
Alarm (ALM2)		See alarm table

ALARM TABLE

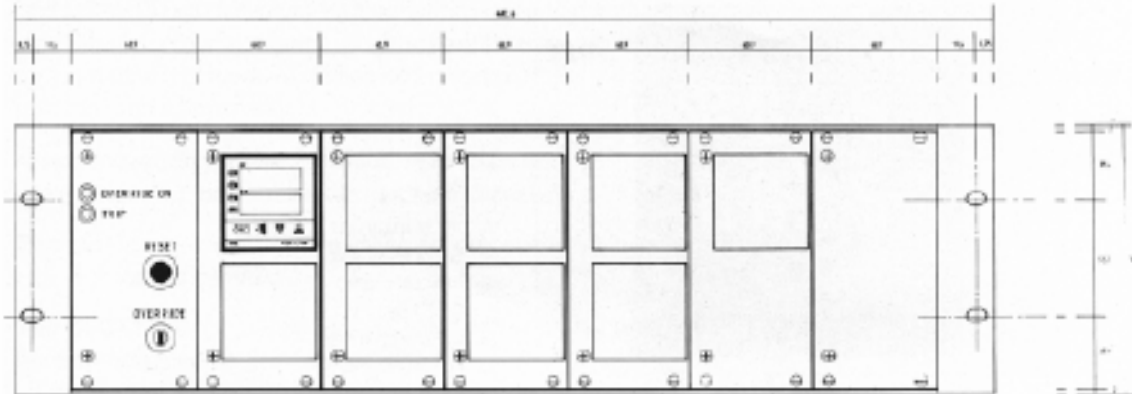
- N No alarm
- A Deviation alarm high
- B Deviation alarm low
- C Deviation alarm band
- D Deviation alarm high/low
- E Deviation alarm high with hold
- F Deviation alarm low with hold
- G Deviation alarm high/low with hold
- H Process alarm high
- J Process alarm low
- K Process alarm high with hold
- L Process alarm low with hold
- R Loop break alarm (LBA)
- P Heater break alarm (HBA) for CTL-S-P-N (30A)
- S Heater break alarm (HBA) for CTL-12-S56-10L-N (100A)

TEMPERATURE ALARM



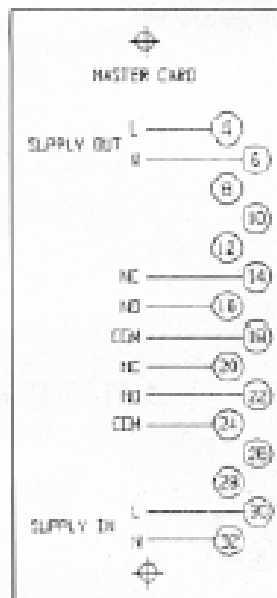


■ EXTERNAL DIMENSIONS

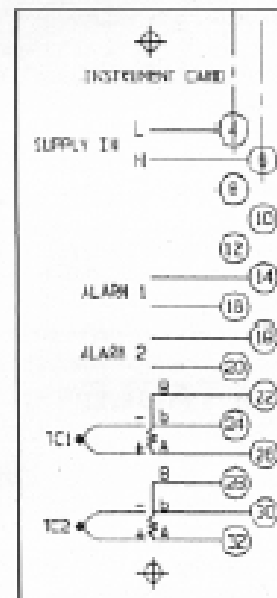


■ BACKPLATE CONNECTIONS

MASTER CARD



INSTRUMENT CARD



■ REPRESENTED BY:

