DRAWING NUMBER D41985

THIRD ANGLE PROJECTION TO B.S. 308

FOR GENERAL TOLERANCES & FINISHES SEE PENNY & GILES STANDARD 55-301 FOR GEOMETRIC TOLERANCES SEE B.S. 308 PT 3.

HOLE DATA				
APPROX. GRID REF.	HOLE REF.	No. OF HOLES	DESCRIPTION	POS. TOL

USED ON Proj N° 1628

D or CAT. No. D41985 VAR 41985 L 63396

M.A. or S.A.

D.I.S. or M.R.I.

D.O. REFS.

SUB-MASTER FROM:-

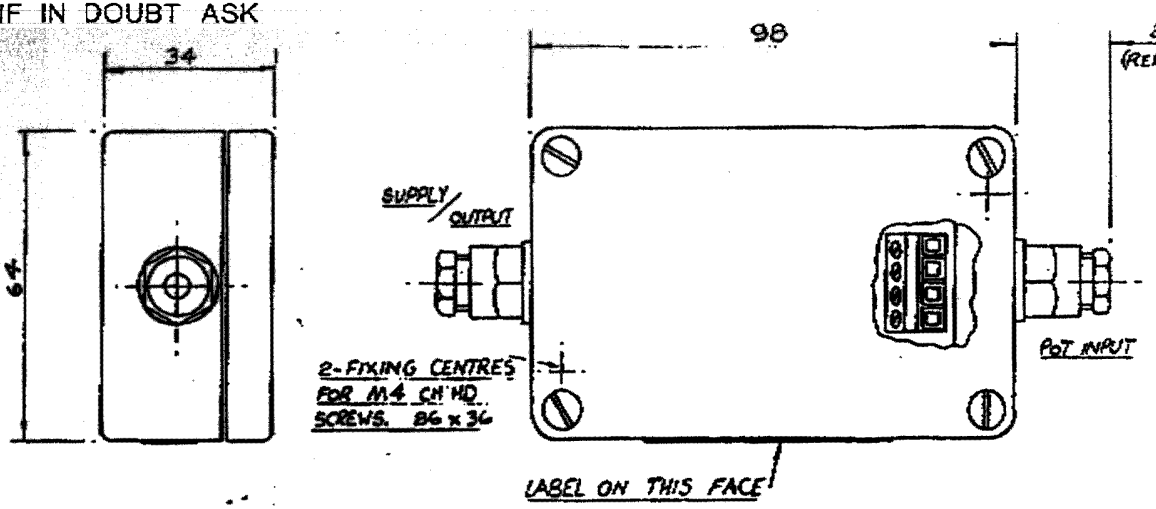
APPROVED

CHECKED BC.

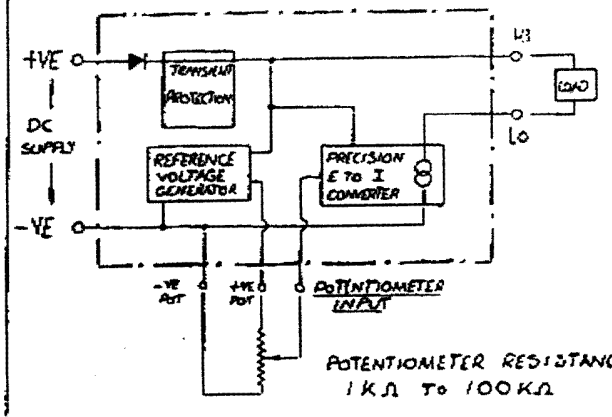
TRACED

DRAWN I. HARRIS

IF IN DOUBT ASK



SCHEMATIC DIAGRAM



POTENTIOMETER RESISTANCE 1KΩ to 100KΩ

SPECIFICATION DATA

SUPPLY VOLTAGE RANGE	10 to 30 V D.C.
SUPPLY CURRENT	60mA MAX
SUPPLY PROTECTION — INPUT RIPPLE	± 10% of INPUT
SUPPLY PROTECTION — TRANSIENT	± 60V, 5μ sec
SUPPLY PROTECTION — POLARITY REVERSAL	INDEFINITE
OUTPUT CURRENT	0 – 20mA, 0 – 10mA
OUTPUT CURRENT OFFSET ADJUSTMENT	0 – 4mA
LOAD RANGE 20mA — 24V SUPPLY	0 – 700Ω
LOAD RANGE 20mA — 12V SUPPLY	0 – 350Ω
LOAD RANGE 10mA — 24V SUPPLY	0 – 1600
LOAD RANGE 10mA — 12V SUPPLY	0 – 750
LOAD REGULATION	0.05% SPAN. RL 0 to 350Ω
LINE REGULATION	0.01% SPAN / VOLT
LINEARITY	0.05% SPAN
TEMPERATURE COEFFICIENT OF OUTPUT	± 0.025%/°C
OPERATING TEMPERATURE RANGE	-20°C to + 60°C
SEALING (SUBJECT TO USER CABLE SEAL)	To IP65

NOTES

1) IT IS RECOMMENDED THAT THE SUPPLY BE PROTECTED BY FITTING A 100mA FUSE IN SERIES WITH THE SUPPLY

2) CONNECTIONS :- ARE IDENTIFIED ON THE CIRCUIT BOARD ADJACENT TO THE TERMINAL STRIPS

3a) ADJUSTMENTS: UNIT WILL BE SUPPLIED WITH THE OUTPUT CURRENT SET AT 0 – 20mA FOR 0 – 100% OF INPUT POTENTIOMETER

3b) ADJUSTMENT PROCEDURE IS CONTAINED ON LABEL INSIDE OF LID

3c) THERE IS ENOUGH ADJUSTMENT FOR THE TOP AND BOTTOM 25% OF POTENTIOMETER INPUTS TO BE SET TO 20mA 10mA RESPECTIVELY. IN ADDITION THE BOTTOM 25% OF INPUT CAN BE ADJUSTED TO GIVE 0 TO 4mA OUTPUT.

MATERIAL :-	FINISH :-	TOLERANCES	SCALE : 1:1
ALUMINIUM DIE-CAST	BLUE/GREY STOVE ENAMEL PAINT	±0.25	DIMS : MM

ISSUE	2	3	3A
DATE	11-2-81	28-2-84	26-3-87
CHANGE	[illegible]	KM 7739/3	7739/5

Penny & Giles Christchurch, Dorset. U.K.

TITLE: VOLTAGE TO CURRENT CONVERTER FOR LINEAR OR ROTARY POTENTIOMETER INPUT

SIZE A3

DRAWING NUMBER D41985