

Programmable digital meter relay



Power supply : AC/DC 90-260V
: AC/DC 18 - 60V
Consumption: : 3VA

Environmental conditions
Operating temperature : -10 ° C to +60 ° C
Storage temperature : -30 ° C to +75 ° C
Relative humidity : 95% max. non-condensation
Enclosure : IEC 529 (IP52)

Insulation Test Voltage
Input_Output / Housing : AC 4 kV ANSI c37.90a, DIN-IEC255-4
Output_Housing : 500 V

Mechanical characteristics
Material plastic : NORYL UL94 V-0 self extinguishing
Protection degree EN60529 : IP54 (front panel); IP20 (terminals)
Terminals : Screw type 2.5mm.
Dimension : 84 x 100 x 50 mm.
Panel cutout : 93 x 45 mm.
Mounting : Flush Mounting
Weight : 450 g.

Inputs

AC or DC : 0-50mV, 0-5V, 0-10V, 0-36V, 0-54V, 0-110V, custom
AC or DC : 0-200uA, 0-2mA, 0-20mA, 0-200mA, 0-2.A, 0-5A.
Potentiometer : 0-10%, 0-50%, 0-100%, 5-95%, 10-90%
Transmitter : 4-20mA 1-5V
: With or without exciting source 24V dc 25mA.
PT100 : -50.00...+50.00, -100.00...+100.00,
-200.00...+400.00, -200.00...+850.00
Transmitter : 4-20mA 1-5V
: With or without exciting source 24V dc 25mA.
Input impedance : >100 MOhm
Burden : max 0.15 VA
Frequency : 50/60 Hz±3 Hz, 400Hz±3 Hz
Overload : 1.5 x rated continuous
: 2 x rated for 10 seconds
: 4 x rated for 2 seconds

Accuracy : ±0.1%FS ±1Digits.
: ±0.25%FS ±1Digits. (AC)

Display

Type : LED 5 digits, Height 10.16mm. (0.4")
Display Range : -19999 ... 19999 digit adjustable
Back-up memory : By E²PROM, no data loss even power failure.
Data 10years retention
Sampling time : 16 cycles/sec.
Over-range indication : "d0FL" or "-d0FL"
Response time : 0.2 sec.
Security function : 5 digits password
Temp. coefficient : 100ppm/°C (0-50°C)
Parameter setting : Membrane touch switches

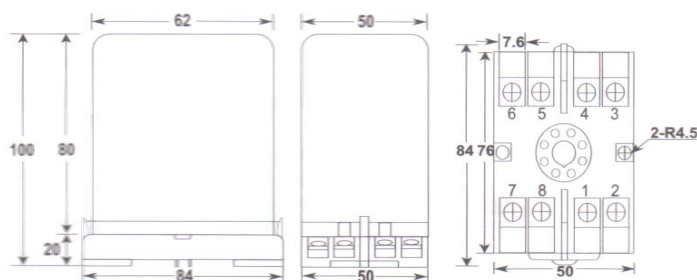
Error Display

Over-Under range : "0FL" or "-0FL"
Over-Under scale : "d0FL" or "-d0FL"
A/D converter failure : "AdEr"
E²PROM failure : "E- 00"

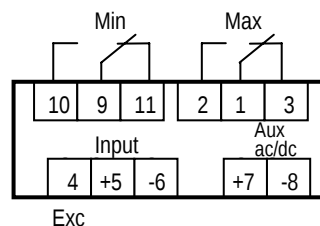
Alarm output

Type : Relay SPDT changeover contact
Capacity : 2 relays AC 250V 3A, DC 30V 5A
Limit output : Programmable Min-Max of each relay
Alarm hysteresis : 0-999
Alarm delay time : 0-99.9 second
Parameter setting : Membrane Touch switches

Dimensional Drawing.



Wiring Connection



ORDERING INFORMATION MAR+X1+X2+X3+X4
Example Ordering MAR + A + 41 + 2 + B

X1	Input	X2	V DC-AC	X2	A DC-AC	X2	Potentiometer	X2	Transmitter	X2	PT100 (° C)	X3	Alarm output	X4	Aux
A	DC	11	0-50mV	22	0-200uA	31	0-10%	41	4-20mA	51	-50.00..0..50.00	1	1 relay	A	AC/DC18-60V
B	AC (RMS)	12	0-5V	23	0-2mA	32	0-50%	42	1-5V	52	-100.00..0..100.00	2	2 relay	B	AC/DC90-260V
C	AC(TRMS)	13	0-10V	24	0-20mA	33	0-100%	49	Others	53	-200.0..0..400.0	Relay contact 250V ac 3A 30V dc 5A			Less than 4VA
D	Potentiometer	14	0-36V	25	0-200mA	34	5-95%			54	-200.0..0..850.0				
E	Transmitter	15	0-54V	26	0-2A	35	10-90%			59	Others				
F	PT100	16	0-110V	27	0-5A	39	Others								
O	Others	19	Others	29	Others		Exciting Voltage DC5V-5mA								