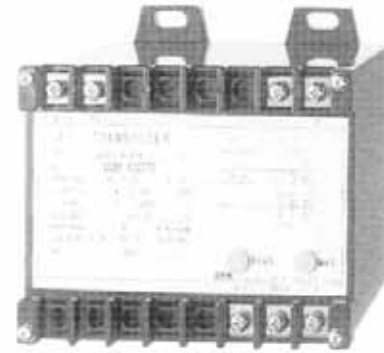


# § BOX TRANSDUCER § AC SPECIAL TRANSDUCER

# MAXIMUM DEMAND TRANSDUCER

## Standard specifications

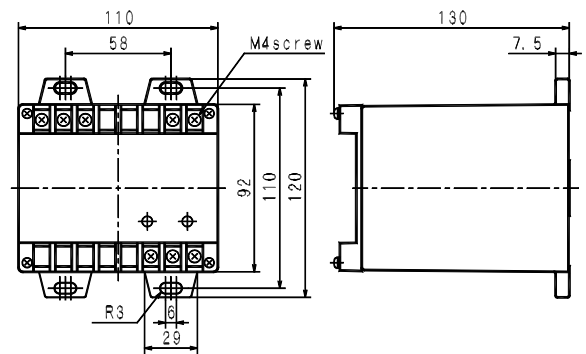
Item	Specification
Type	MDATT2-83A
Standard	In conformity with JIS C1111-1989
Tolerance	± 1%
Input	1A, 5A (product range: 50-300A)
Output (load resistance)	5V 10V 1-5V 1mA 4-20mA ( 1k ) ( 2k ) ( 1k ) ( 10k ) ( 500 )
Auxiliary supply	AC100/110V ± 15% (50/60Hz) 3VA AC 200/220V ± 15% (50/60Hz) 3VA DC 100/110V 6W
Period	Time it takes to reach 95% (±2%) of final steady value 1 min, 3 min, 5 min,
Warm-up time	Times equals period after the power was turned on.
Output ripple	1% P-P against output span
Influence of temperature	23 ± 20 ± 1%
Over current	Input 40 times 1 sec. 1.2 times continuity Auxiliary supply 1.5 times 10 sec. 1.2 times continuity
Overvoltage	
Insulation resistance	Between input terminal/output terminal/auxiliary supply/outer case (earth) 50M at DC500V
Withstand voltage	Between input terminal/output terminal/auxiliary supply/outer case (earth): AC2, 000V (50/60Hz) 1 min.
Impulse withstand voltage	Between electric circuit and outer case (earth) 5kV 1.2/50µs positive/negative polarity 3 times each
Appearance color	Black (munsell N1.5)
Operating temperature/humidity range	-10 + 55 , 30-85%RH
Storage temperature range	-40 + 70
Weight	Approx. 1.2kg



**MDATT2-83A**

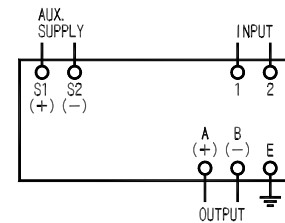
(120 × 110 × 130mm/1.2kg)

### Dimensions (mm)

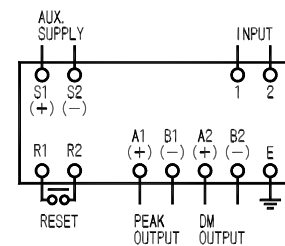


### Connection diagram

- Demand output only



- W/ peak hold (option)



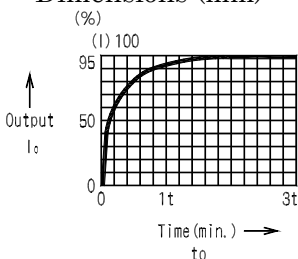
### Option

With peak-hold output

Item	Specifications
Output (load resistance)	5V 10V 1-5V 1mA 4-20mA ( 1k ) ( 2k ) ( 1k ) ( 10k ) ( 500 )
Power consumption (VA)	5VA
Reset method	External switch
Reset time	20ms

Non-insulation between demand output and peak output terminals. (Minus common)  
Make sure to reset the device before use each time the power is turned on.

### Dimensions (mm)



When applied continuously a constant input I, it operates according to exponential function and outputs I<sub>0</sub>.

The device outputs the average value of input at 3t.

$$I_0 = I(1 - e^{-3t/t_0})$$

### Purchase specifications

Type	Input
Output	Load resistance
Auxiliary supply	
Period	Quantity