



# MICROPROCESS BASED SIGNAL CONVERTERS

# 350

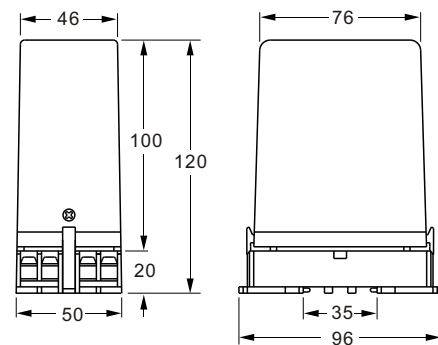
## GENERAL SPECIFICATIONS

<b>GENERAL</b>	
<b>POWER SUPPLY</b>	AC 110 / 220V $\pm$ 10% 50 / 60HZ 24V DC or specified
<b>POWER CONSUMPTION</b>	Approx.4VA
<b>AMBIENT TEMP.</b>	-5 to +55°C / 90%RH max.
<b>HOUSING MATERIAL</b>	Plastic (Black)
<b>CONSTRUCTION</b>	Plug-in / socket with screw terminals
<b>MOUNTING</b>	Wall or DIN rail 35mm

<b>INDICATION FOR 350B</b>	
<b>DISPLAY</b>	Red LED,9.2mmH
<b>RANGE</b>	-1999 to 9999 for analog 0~99999 for Frequency
<b>PROGRAMMABLE</b>	Zero / span adjustable Output signal rangeable Decimal point selectable Error message



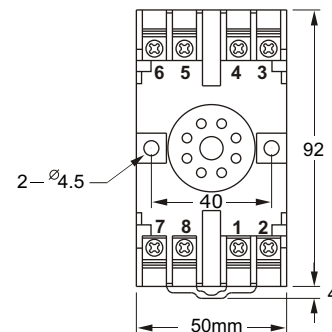
## DIMENSIONS (m/m)



## MODEL SELECTION Table 1

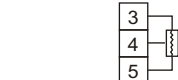
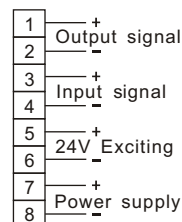
ITEMS	CODE	SIGNAL CONVERTER
		350
① INDICATION	A	None
	B	LED display (-1999 to 9999)
	C	To be specified
② TYPE OF INPUT SIGNAL	-0	DC current
	-1	DC voltage
	-2	Potentiometer
	-3	RTD DIN43760 Pt100 $\Omega$ 3 wires
	-4	Thermocouples
	-5	Frequency / To be specified
③ RANGE OF INPUT SIGNAL	00	0~50 $\mu$ A
	59	To be specified (See table 3)
④ RANGE OF OUTPUT SIGNAL	-A	4~20mA DC
	-B	1~5V DC
	-C	0~10K Hz
	-D	To be specified
⑤ MODE OF OUTPUT SIGNAL	A	Linearism for general purpose
	B	Nonlinearity (segmental)
	C	Square root extractor
	D	To be specified
⑥ POWER SUPPLY	A	AC110V $\pm$ 10% 50/60 Hz
	B	AC220V $\pm$ 10% 50/60 Hz
	C	DC24V $\pm$ 10%
	D	To be specified

## SOCKET DIMENSIONS (m/m)



## WIRING CONNECTIONS

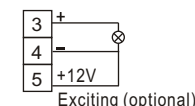
### CURRENT POTENTIOMETER



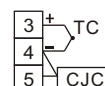
### FREQUENCY



### VOLTAGE



### TC



### RTD



# SPECIFICATIONS

## Table 2

INPUT TYPE ITEMS	0	1	2	3	4	5
INPUT SIGNAL	DC Current 50 $\mu$ A~5A	DC Voltage 10mA~10V	Potentiometer 0.5~50K $\Omega$	RTD DIN43760 PT100 $\Omega$ 3-wire	Thermocouples K, E, J, T, R, S	Frequency / To be specified
OUTPUT SIGNAL	4~20mA DC ( 0~500 $\Omega$ ) 1~5V DC ( 2.5K $\Omega$ ) V/F : Open collector (NPN / PNP) Contact 0.5A 250V 40CPH~40KCPH F.S		4~20mA DC ( Load 500 $\Omega$ ) 1~5V DC ( Load 2.5K $\Omega$ )			F/F: Open collector Contact closure F/I : 4~20mA DC 1~5V DC
ACCURACY	$\pm$ 0.1% F.S.(Current / Voltage) $\pm$ 0.2% $\pm$ 1 digit ( V/F )		$\pm$ 0.1% F.S.	$\pm$ 0.1% F.S. ( Span $\geq$ 25 $^{\circ}$ C )	$\pm$ 0.2% F.S. ( Span $\geq$ 10mV )	F/F : $\pm$ 1 digit F/I : $\pm$ 0.2% F.S.
LINEARITY OR OUTPUT RIPPLE	$\pm$ 0.1% F.S. $\pm$ 0.2% F.S. ( P-P to V/F )		$\pm$ 0.1% F.S.	$\pm$ 0.2% F.S.	$\pm$ 0.2% F.S.	0.2% F.S ( P-P)
RESPONSE TIME	0.25 sec.		0.4 sec.	0.4 sec.	0.4 sec.	0.4 sec.
ZERO / SPAN Adj.	$\pm$ 20%F.S. Adjustable by VR					
ISOLATION	$\geq$ 100M $\Omega$ with 500V DC ( Between power/ input/output )					
DIELECTRIC STRENGTH	2KVAC / 1 min ( Between power/ input/output ) 4KV / 1.2x50 $\mu$ sec surge tested					
EXCITING POWER	24V DC or specified		Not provided		Optional to be specified	

# SIGNAL RANGE SELECTION

## Table 3

CURRENT SIGNAL		VOLTAGE SIGNAL		POTENTIOMETER / RTD		THERMOCOUPLE				TO BE SPECIFIED	
CODE	$\mu$ A / mA / A	CODE	mV / V	CODE	K $\Omega$ / $^{\circ}$ C	CODE	K / E type	CODE	J / T-type	CODE	Hz / CPS
00	0~50 $\mu$ A	10	0~10mV	20	0.5 / -50~+50	30	K~600 $^{\circ}$ C	40	J~400 $^{\circ}$ C	50	0~0.1
01	0~100 $\mu$ A	11	0~30mV	21	1.0 / -20~+80	31	K~800 $^{\circ}$ C	41	J~500 $^{\circ}$ C	51	0~1.0
02	0~500 $\mu$ A	12	0~50mV	22	3.0 / 0~+50	32	K~1000 $^{\circ}$ C	42	J~600 $^{\circ}$ C	52	0~5.0
03	0~5mA	13	0~100mV	23	5.0 / 0~100	33	K~1200 $^{\circ}$ C	43	J~700 $^{\circ}$ C	53	0~10
04	1~5mA	14	0~500mV	24	10 / 0~+150	34	K~Specified	44	J~Specified	54	0~50
05	4~20mA	15	1~5V	25	15 / 0~+200	35	E~500 $^{\circ}$ C	45	T~200 $^{\circ}$ C	55	0~100
06	20~4mA	16	5~1V	26	20 / 0~+300	36	E~600 $^{\circ}$ C	46	T~250 $^{\circ}$ C	56	0~500
07	0~50mA	17	0~5V	27	30 / 0~400	37	E~700 $^{\circ}$ C	47	T~300 $^{\circ}$ C	57	0~1K
08	0~5A	18	0~10V	28	50 / 0~600	38	E~800 $^{\circ}$ C	48	T~350 $^{\circ}$ C	58	0~5K
09	Specified	19	Specified	29	Specified	39	E~Specified	49	T~Specified	59	Specified

## DOERS TECHNOLOGY CORPORATION

4F, NO. 1, LANE 11, TZU CHIANG STREET, TU-CHENG INDUSTRIAL PARK, TAIPEI COUNTY, TAIWAN 23678

<http://www.doers.com.tw>

E-mail : [doers.tech@msa.hinet.net](mailto:doers.tech@msa.hinet.net).

TEL : 886-2-22682689

FAX : 886-2-22681248

