Honeywell

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DPR100 A/B Pen and Multichannel Recorder: Analog Display

Model Selection Guide

Instructions

• Select the desired Key Number. The arrow to the right marks the selections available.

• Make one selection each from Tables I through VII.

• A complete Model Number must have the designated number of digits in each table.

KEY NUME	BER	Selection		Availability									
Description													
1 Pen	Deg. C	1 Scale to Input 1	DA101	$ \psi $									
Recorder	Deg. F		DA111		$ \downarrow$								
2 Pen	Deg. C	2 Scales to Inputs 1 and 2	DA102			\downarrow							
Recorder	Deg. F		DA112				$ \downarrow $						
3 Pen	Deg. C	3 Scales to Inputs 1, 2, and 3	DA103					\checkmark					
Recorder	Deg. F		DA113						\downarrow				
3 Channel	Deg. C	1 Scale 0 to 100 Linear	DB103							\downarrow			
Recorder	Deg. F		DB113								\downarrow		
6 Channel	Deg. C	1 Scale 0 to 100 Linear	DB106									\downarrow	
Recorder	Deg. F		DB116										↓

TABLE I RANGE/SCALE

Table 1	Specif	y 6 digits _											\square	
Format	1 per l	nput												
None		0			•	•	•	•	•	•	•	•		
	T/C	Deg. C	Deg. F											
	J	-50 to 150	-100 to 300	A	•	•	•	•	•	•	•	•	•	•
	J	0 to 400	0 to 800	В	•	•	•	•	•	•	•	•	•	•
	J	0 to 800	0 to 1500	С	•	•	•	•	•	•	•	•	•	•
	K	0 to 400	0 to 800	D	•	•	•	•	•	•	•	•	•	•
	K	0 to 800	0 to 1500	E	•	•	•	•	•	•	•	•	•	•
	K	0 to 1200	0 to 2400	F	•	•	•	•	•	•	•	•	•	•
Upscale	K	0 to 1400	0 to 2500	Х	•	•	•	•	•	•	•	•	•	•
Burnout	N	0 to 400	0 to 800	G	•	•	•	•	•	•	•	•	•	•
	N	0 to 800	0 to 1500	Н	•	•	•	•	•	•	•	•	•	•
	Ν	0 to 1200	0 to 2400	I	•	•	•	•	•	•	•	•	•	•
	Ν	0 to 1400	0 to 2500	Y	•	•	•	•	•	•	•	•	•	•
	S	0 to 1600	0 to 3000	J	•	•	•	•	•	•	•	•	•	•
	R	0 to 1600	0 to 3000	Q	•	•	•	•	•	•	•	•	•	•
	Т	-100 to 200	-150 to 400	K	•	•	•	•	•	•	•	•	•	•
	Т	0 to 150	0 to 300	L	•	•	•	•	•	•	•	•	•	•
	Т	50 to 150	100 to 300	Μ	•	•	•	•	•	•	•	•	•	•
		-50 to 50	-60 to 140	7	•	٠	•	•	٠	•	•	٠	•	•
RTD	Pt	-50 to 150	-100 to 300	N	•	•	•	•	•	•	•	•	•	•
Burnout	100	0 to 100	0 to 200	Р	•	•	•	•	•	•	•	•	•	•
Fixed		-200 to 200	-300 to 400	R	•	•	•	•	•	•	•	•	•	•
Upscale		0 to 400	0 to 800	S	•	•	•	•	•	•	•	•	•	•

Availability

DB1 _ _ _ DA1

TABLE I R	ANGE/SCALE	, continued			↓ 0 1	↓ 1 1	↓ 0 2	↓ 1 2	↓ 0 3	↓ 1 3	↓ 0 3	↓ 1 3	↓ 0 6	↓ 1 6
	Linear													
0 to 100	mV	0 to 10 0 to 20 0 to 50	0 to 10 0 to 20 0 to 50	T U V	•	•	•	•	•	•	•	•	•	•
Linear Scale	Upscale Burnout	10 to 50 0 to 100	10 to 50 0 to 100	VV Z	•	•	•	•	•	•	•	•	•	•
Only	V Upscale Burnout	0 to 1 0 to 5 1 to 5	0 to 1 0 to 5 1 to 5	1 2 3	•••	•••	• • •	•••	•••	•	•••	•••	•	•
	V Burnout Fixed Down	0 to 10	0 to 10	4	•	•	•	•	•	•	•	•	•	•
(Note 4)	mA Burnout Fixed Downscale	0 to 20 4 to 20 4 to 20 SQRT	0 to 20 4 to 20 4 to 20 SQRT	5 6 8	•	•	•	•	•	•	•	•	•	•
Special Ra	9	•	•	•	•	•	•	•	•	•	•			

TABLE II CHART SPEED

TABLE II C	HART SPEED		Selection										
Units Frequency	Multivoltage 50 Hz (85 to Multivoltage 50 Hz (85 to Multivoltage 60 Hz (85 to Multivoltage 60 Hz (85 to 24 Vac/dc 50 Hz 24 Vac/dc 60 Hz 48 Vac/dc 50 Hz 48 Vac/dc 60 Hz	Chart Speed 264 V) mm/hr 264 V) inch/hr 250 V) mm/hr 250 V) inch/hr mm/hr inch/hr mm/hr inch/hr	A B C D E F H			• • • • • • •	• • • • •	•••••••	• • • • • •	• • • • • •	• • • • •	• • • • • • •	• • • • • •
	mm/hr	Inch/hr											
Preset Speed 1 (Note 5)	10 20 30 50 60 100 120 150 180 200 240 300 360 600 720 1200 1500 1800 3600 4800 6000	0.5 0.75 1 2 3 4 5 6 7 8 10 15 20 25 30 40 60 90 120 180 240	A A A A										• • • • • • • • • • • • •
Preset Speed 2	5 10 20 30 50 60 100 120 150 180 200 240	0.2 0.5 0.75 1 2 3 4 5 6 7 8 10	0 A B D E F G H I J K	• • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • •	• • • • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • •

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		DB1	Availability								_		
		DA1_											
				V 0	V 1	V 0	Ψ 1	V 0	Ψ 1	V 0	Ψ 1	V 0	Ψ 1
TABLE II C	HART SPEED, contin	ued	Selection	1	1	2	2	3	3	3	3	6	6
	mm/hr	Inch/hr											
	300	15	L	٠	٠	•	•	•	•	•	•	•	•
Preset	360	20 25	N	٠	٠	٠	٠	٠	•	•	٠	٠	٠
Speed 2	720	20	N P	•	•	•	•	•	•	•	•	•	•
Opecca 2	1200	40	'Q								•		•
	1500	60	R	•	•	•	•	•	•	•	•	•	•
	ALARINS (Note 1)			1.				1.	-				1.
	Canfigurad (Channal	<i>ща</i>)	0	•	•	•	•	•	•	•	•	•	•
o Relays - 2	2 Configured (Channel	#1) //4)	1	•	•								
Z Relays - 2	2 Conligured (Channel	#1) /// / // ()	2	•	•	•	•	•	•	•	•	•	•
6 Relays - 4	Configured (Channels	s #1 and #2)	4			•	•						
6 Relays - 6	6 Configured (2 on Eac	h Channel)	5					•	•	•	•		
6 Relays - (One High Alarm SP or	Each Channel)	6									•	٠
TABLE IV I	LOGIC INPUT												
None			0	•	•	•	•	•	•	•	•	•	•
2 Remote	L1: Print Inhibit Switch		A	•	٠	•	•	•	•	•	•	•	٠
2 Remote	L2: Change Speed 11		B	_	_	_	_	_	_				
Contacts	12: Event Marks	1	D	•	•	•	•	•	•				
2 Remote	L1: Print Inhibit Switch	ו	С							•	•	•	•
Contacts	Contacts L2: Event Trace									Ľ.	-		-
2 Remote	L1: Event Trace 1		D							•	•	•	•
Contacts	L2: Event Trace 2												
TABLE V C	HART CASSETTE												
Standard C	hart: 0-100 Linear	Roll	R	•	•	•	•	•	•	•	•	•	•
(50 division	s)	Fan Fold	Z	•	•	•	•	•	•	•	•	•	•
TABLE VI I	DOOR AND CASE												
Dark Gray [Door with Latch, Plastic	Window	1	•	٠	•	•	•	•	•	•	•	•
Dark Gray	Door Key Lock, Plastic	Window	2	•	•	•	•	•	•	•	•	•	•
Dark Gray	Door with Latch, Abras	ion Resistant Window	3	•	•	•	•	•	•	•	•	•	•
Dark Grav I	Door, Key Lock, Abrasi	on Resistant Window	4	•	•	•	•	•	•	•	•	•	•
Portable Ca	ase (Note 2)		5	с	с	с	с	с	с	c	с	с	с
	OPTIONS		*					•			•		•
	UPTION5		0						•			•	
Pen Offect			Δ							Ī			
Pear Cover			6	_									
Real Cover	and Boor Cover		G	•	•			•		•	•	•	•
CSA Approx						•	•	•	•				
CSA Appro	vai		R	•	•	•	•	•	•	•	•	•	•
CSA Appro	val and Rear Cover		S	•	•	•	•	•	•	•	•	•	•
CSA Appro	val and Pen Offset	-	<u> </u>			•	•	•	•				
CSA Appro	val, Pen Offset and Re	ar Cover	U			•	•	٠	•				
None			_0	•	٠	•	•	•	•	•	•	•	•
Power Supp	bly for Transmitter 24 V	/dc (50 mA max)	_B	•	٠	•	•	٠	•	•	٠	•	٠
None			0	•	٠	٠	٠	•	٠	٠	٠	٠	٠
		4)	<u></u>	•	•	•	•	•	•	•	•	•	•
Certificate o	<u>D</u>	•	•	•	•	•	•	•	•	•	•		
Certificate o	of Calibration	2 HL 1 1	<u></u>	•	•	•	•	•	•	•	•	•	•
Certificate of	of Conformance & Cha	rt Illumination	^F	•	•	•	•	•	•	•	•	•	•
Certificate of	of Calibration & Chart I	lumination	G	•	•	•	•	•	•	•	•	•	•
None		atoly (Nota 1)	00	•	•	•	•	•	•	•	•	•	•
iviounting of	Scale Ordered Separa	ately (NOTE 4)	H0	•	•	•	•	•	•	•	•	٠	•

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- Note 1: Alarm output: "N.C." contact. Can be changed to "N.O." Alarms are configured 1 High and 1 Low on each channel except for Selection 6 which is configured as High Alarm on each channel. The Alarm Setpoint Value can be changed from the front key panel.
- Note 2: Portable case with dark gray door, plastic window, latch, rear main switch. IEC main plug connector and rear cover. (Not available with CSA Approval.)
- Note 3: Consult Factory.
- Note 4: For chart range and scale configuration different than what is specified in Table I, specify Table VII option _ _ _ H0 and complete the following table. For mV, V, and mA the <u>input signal</u> can be selected within the range actuation limits (minimum range is 20%). For T/C and RTD ranges the <u>chart range</u> and scale can be selected within the range actuation limits (minimum chart range is 20%). Refer to the DPR 100 A/B scales list for available scales. The information in the table is to be entered in the free form section of the order. Multipoint units come with a single scale.
- Note 5: Speed 1 can be changed from the front key panel.
- Note 6: The units are built with Universal input and are delivered with 250 ohm resistors to convert input current signal 4-20 mA into 1-5 volts dc.

Table for Table VII Option _ _ _ H0

Pen #	Multipoint	Input*	Burnout**	Cł	nart	Scale				
(DA1XX)	Channel #	Signal		Range	Range Eng. Unit**		Item #			
	(DB1XX)									
1	1									
2	2									
3	3									
	4									
	5									
	6									

* For mV, V, and mA, the input signal can be scaled within the actuation limits (minimum input scaling is 20%).

** Burnout is factory set as indicated in Table I. Burnout on 4-20 mA and the 0-10 volt range is fixed at downscale burnout. All other ranges burnout can be set per customer request except RTD's which is fixed at upscale burnout.

*** Engineering Units is 5 characters maximum.

RESTRICTIONS

Restriction Letter		Available Only With		Not Available With
	Table	Selection	Table	Selection
с			VII	R, S T, U G, P