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Series DR4500A Digital Circular Chart Recorders

Model Selection Guide

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection each from Tables I through VI, using the column below the proper arrow. A dot (•) denotes unrestricted availability. A letter denotes restricted availability.

Key Number	I	II	III	IV	V	VI
_ _ _ _ _ _	- _ _ _ _	- _ _	- _ _ _	- _	- _ _ _ _ _ _	- _

KEY NUMBER	Selection	Availability							
1 Pen - Classic	DR45A1	↓							
2 Pen - Classic	DR45A2		↓						
Truline	DR45AT			↓					
Truline - Relay Expansion	DR45AR				↓				
Truline - Flow Recorder	DR45AW					↓			
Truline - HTST	DR45AH						↓		
Truline - Pasteurization Recorder - Flow	DR45AP							↓	
Truline - Safety Thermal Limit Recorder	DR45AS								↓

TABLE I - INPUT

Channel 1	T/C, RTD, mV, 0-5 VDC, 4-20 mA, Radimatic	1 _ _ _	•	•	•	c	•	•	•	•
	0-10 VDC	3 _ _ _	•	•	•	c	•			
Channel 2	None	_ 0 _ _	•		•	•	•		•	•
	T/C, RTD, mV, 0-5 VDC, 4-20 mA, Radimatic	_ 1 _ _		•				•		
	T/C, RTD, mV, 0-5 VDC, 4-20 mA, Radimatic	_ 1 _ _			•	c	•		•	•
	0-10 VDC	_ 3 _ _		•						
	0-10 VDC	_ 3 _ _			•	c	•			
Channel 3	None	_ _ 0 _	•	•	•	•	•	•	•	•
	T/C, RTD, mV, 0-5 VDC, 4-20 mA, Radimatic	_ _ 1 _			•	e	•	d	d	d
	0-10 VDC	_ _ 3 _			•	e	•			
Channel 4	None	_ _ _ 0	•	•	•	•	•	•	•	•
	T/C, RTD, mV, 0-5 lVDC, 4-20 mA, Radimatic	_ _ _ 1			•	g	•	f	f	f
	0-10 VDC	_ _ _ 3			•	g	•			

		Availability							
	DR45A ↓	↓	↓	↓	↓	↓	↓	↓	↓
TABLE II - EXTERNAL OUTPUTS (Note 2)	**Selection**	**1**	**2**	**T**	**R**	**W**	**H**	**P**	**S**
None	0 _	•	•	•	•	•			•
Control Output #1	1 _	•	•						
Control Output #1	1 _						**h**	**h**	
Control Output #1	4 _			•	•				
Pulse Output	5 _					•			
None	_ 0	•	•	•	•	•	•	•	•
Control Output #2	_ 1		**j**					**r**	
Control Output #2	_ 4			**j**	**u**				

TABLE III - EXTERNAL INTERFACE AND PEN SELECTION

None	0 _ _	•	•	•	•	•	•	•	•
Auxiliary 4-20 mA Output	1 _ _	•	•	•	•	•	•	•	•
RS485 Modbus RTU Communications	3 _ _	•	•	•	•	•			
RS485 Modbus RTU plus Auxiliary 4-20mA Output	4 _ _	•	•	•	•	•			
Standard Pen (Classic) or Truline High Speed Pen	_ 0 _	•	•	•	•	•	•	•	•
Abrasion Resistant Pen on Truline	_ 1 _			**k**	**k**	**k**	**k**	**k**	**k**
None	_ _ 0	•	•	•	•	•	•	•	
2 Alarms/2 Digital Inputs	_ _ 1	•	•	•	•	•			•
4 Alarms/2 Digital Inputs	_ _ 2				**v**				
6 Alarms/2 Digital Inputs	_ _ 3				**w**				
1 Alarm/1 Timer Output/2 Digital Inputs	_ _ 4	•	•	•	•	•			

TABLE IV - SOFTWARE OPTIONS

None	0	•	•	•	•	•	•	•	•
Totalization (Input #1)	A	•	•	•	•	•			
Totalization (Inputs #1 and #2)	E		•	•	•	•			
Totalization (Inputs #1, #2, #3, and #4)	H					•			
FO Sterilization Calculation	F				•				
Math **(Note 3)**	B			•	•	•			
Totalization (Input #1) Plus Math	K			•	•	•			
Totalization (Inputs #1 and #2) Plus Math	L			•	•	•			
Totalization (Inputs #1, #2, #3 and #4) Plus Math	M					•			

		Availability							
	DR45A ↓	↓	↓	↓	↓	↓	↓	↓	↓
TABLE V - OPTIONS	**Selection**	**1**	**2**	**T**	**R**	**W**	**H**	**P**	**S**
Gray Door with Glass Window	0 _ _ _ _ _	•	•	•	•	•			
Gray Door with Acrylic Window	1 _ _ _ _ _	•	•	•	•	•			
Gray Door with Glass Window and Key Pad	E _ _ _ _ _	•	•	•	•	•			
Gray Door with Acrylic Window and Key Pad	F _ _ _ _ _	•	•	•	•	•			
Blue Door with Glass Window	5 _ _ _ _ _	•	•	•	•	•			
Blue Door with Acrylic Window	6 _ _ _ _ _	•	•	•	•	•			
Black Door with Glass Window	L _ _ _ _ _	•	•	•	•	•			
Black Door with Acrylic Window	9 _ _ _ _ _	•	•	•	•	•			
Stainless Steel Door with Glass Window	2 _ _ _ _ _	•	•	•	•	•			
Stainless Steel Door with Arylic Window	3 _ _ _ _ _	•	•	•	•	•			
NEMA4X Door with Glass Window	P _ _ _ _ _	•	•	•	•	•			
NEMA4X Door with Acrylic Window	R _ _ _ _ _	•	•	•	•	•			
NEMA4X Door HTST with Divert Lights	S _ _ _ _ _						•	•	•
Standard Door Latch	_ 0 _ _ _ _	**q**	**q**	**q**	**q**	**q**			
Keyed Latch	_ A _ _ _ _	•	•	•	•	•	•	•	•
Door Lock with Key	_ K _ _ _ _	**m**	**m**	**m**	**m**	**m**			
None	_ _ 0 _ _ _	•	•	•	•	•	•	•	•
Configuration Lockout/Chart Plate Seal	_ _ L _ _ _	•	•	•	•	•			
Configuration Lockout/Chart Plate Seal & Chart Illum.	_ _ M _ _ _	**t**	**t**	**t**	**t**	**t**			
Chart Illumination	_ _ N _ _ _	**t**	**t**	**t**	**t**	**t**			
None	_ _ _ 0 _ _	•	•	•	•	•	•	•	•
CE Mark	_ _ _ K _ _	•	•	•	•	•			
CE Mark plus UL Listing/CSA Certification	_ _ _ L _ _	•	•	•	•	•			
CE Mark plus FM Approval	_ _ _ M _ _	•	•	•	•	•			
CE Mark plus UL Listing and FM Approval/CSA Certification	_ _ _ N _ _	•	•	•	•	•			
UL Listing/CSA Certification	_ _ _ P _ _	•	•	•	•	•	•	•	•
FM Approved - Class 1, Div. 2, Groups A, B, C, D	_ _ _ R _ _	•	•	•	•	•			
UL Listing, CSA Certification, FM Approval	_ _ _ U _ _	•	•	•	•	•			
None	_ _ _ _ 0 _	•	•	•	•	•	•	•	•
Customer Identification Tag (30 characters max)	_ _ _ _ T _	•	•	•	•	•	•	•	•
Certificate of Conformance (F3391)	_ _ _ _ B _	•	•	•	•	•	•	•	•
Custom Calibration/Test Report (F3399) **(Note 1)**	_ _ _ _ C _	•	•	•	•	•	•	•	•
Certificate of Conformance and Identification Tag	_ _ _ _ D _	•	•	•	•	•	•	•	•
Customer Calibration and Identification Tag **(Note 1)**	_ _ _ _ E _	•	•	•	•	•	•	•	•
Product Information on CD	_ _ _ _ _ 0	•	•	•	•	•	•	•	•
Product Manual - English	_ _ _ _ _ E	•	•	•	•	•	•	•	•
Product Manual - German	_ _ _ _ _ G			•	•				
Product Configuration (with CD & Hardcopy) **(Note 4)**	_ _ _ _ _ 1	•	•	•	•	•	•	•	•

TABLE VI - FACTORY USE

None	0	•	•	•	•	•	•	•	•

RESTRICTIONS

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
c				Not available with T/Cs B, N, R, W; but includes 200 ohm RTD Actuation
d	I	11 _ _, 31 _ _, 13 _ _, 33 _ _		
e	I	11 _ _, 31 _ _, 13 _ _, 33 _ _ Not available with T/Cs B, N, R, W; but includes 200 ohm RTD Actuation		
f	I	111 _, 113 _, 131 _, 133 _, 311 _, 313 _, 331 _, 333 _		
g	I	111 _, 113 _, 131 _, 133 _, 311 _, 313 _, 331 _, 333 _ Not available with T/Cs B, N, R, W; but includes 200 ohm RTD Actuation		
h		Available only with 4-20 mA control output		
j	I II	11 _ _, 31 _ _, 13 _ _, 33 _ _ 1 _ for Classic, 4 _ for Truline (DR45AT or DR45AR)		
k		Available only with chart rotations of 24 to 744 hours on Truline.		
m			V	2 _ _ _ _ _, 3 _ _ _ _ _ P _ _ _ _ _, R _ _ _ _ _, S _ _ _ _ _,
q		Not available with NEMA4 Door	V	P _ _ _ _ _, R _ _ _ _ _, S _ _ _ _ _,
r	I II	11 _ _, 31 _ _, 13 _ _, 33 _ _ 6 _, (1 _, for DR45AP Model) available only with 4-20 mA control output		
t		Not available with CE Mark Option	V	XXXKXX, XXXLXX, XXXMXX, XXXNXX
u	I II	11 _ _, 31 _ _, 13 _ _, 33 _ _ 1 _ for Classic, 4 _ for Truline (DR45AT or DR45AR) available only with 4 - 20 mA control output		
v	II	4 _, Alarms 1 - 4 Plus 4-20ma Control Output Supplied		
w	II	_ 4, Alarms 1 - 6 Plus 2nd 4-20ma Control Output Supplied		

Note 1: Calibration Test Reports/Certificates require specific Range and Input Actuation data from the customer. Form F3399 Supplemental Data must be completed. This can be downloaded from the Honeywell SalesNet site or the Global Technical Services site: <http://content.honeywell.com/ipc/faq/> FAX to York Customer Service at 717-771-8236.

Note 2: All control outputs come standard with Accutune II ® tuning capability. Setpoint Programming capability is available on all models except DR45AH/AS/AP. Each Output Board to be used for control purposes requires an Analog Input be ordered to work properly.

Note 3: Math includes Summer, Multiple Divider with Square Root, Multiplier with Square Root, Multiplier Divider, Multiplier, Subtractor Multiplier, HiLo Select.

Note 4: Customer must supply completed "Configuration Worksheets" with order for units to be Factory Configured (York Customer Service FAX 717-771-8236)

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