

## Series 4500A Digital Circular Chart Recorder

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

TABLE II - EXTERNAL OUTPUTS	Selection	Availability								
		DR45A	1	2	T	R	W	H	P	S
None	0 _	•	•	•	•	•	•	•	•	•
Control Output #1	1 _	•	•	•	•	•	•	•	•	•
Control Output #1	1 _						h	h		
Control Output #1 with Setpoint Programming	4 _			•	h					
Pulse Output	5 _					•				
Control Output #1 with FM Approval	6 _	h	h	h						
None	_0	•	•	•	•	•	•	•	•	•
Control Output #2	_1		j					r		
Control Output #2 with Setpoint Programming	_4			j	u					
Control Output #2 with FM Approval	_6	r	r							

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	k
None	--0	•	•	•	•	•	•	•	•	•
2 Alarms/2 Digital Inputs	--1	•	•	•	•	•	•	•	•	•
4 Alarms/2 Digital Inputs	--2			•	•	•	•	•	•	•
6 Alarms/2 Digital Inputs	--3			•	•	•	•	•	•	•

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			•	•	•	•	•	•	•
Totalization (Input #1) Plus Math	K			•	•	•	•	•	•	•
Totalization (Inputs #1 and #2) Plus Math	L			•	•	•	•	•	•	•
Totalization (Inputs #1, #2, #3 and #4) Plus Math	M					•	•	•	•	•

TABLE V - OPTIONS

Gray Door with Glass Window	0 _ _ _ _	•	•	•	•	•	•	•	•	•
Gray Door with Acrylic Window	1 _ _ _ _	•	•	•	•	•	•	•	•	•
NEMA 4 SST Door with Glass Window	2 _ _ _ _	m	m	m	m	m	m	m	m	m
NEMA 4 SST Door with Acrylic Window	3 _ _ _ _	m	m	m	m	m	m	m	m	m
NEMA 4 SST HTST Door	4 _ _ _ _						m			m
Blue Door with Glass Window	5 _ _ _ _	•	•	•	•	•	•	•	•	•
Blue Door with Acrylic Window	6 _ _ _ _	•	•	•	•	•	•	•	•	•
NEMA 4 SST Door, Acrylic Window, Divert Lights	7 _ _ _ _								m	
Black Door with Glass Window	8 _ _ _ _	•	•	•	•	•	•	•	•	•
Black Door with Acrylic Window	9 _ _ _ _	•	•	•	•	•	•	•	•	•
Heavy Duty SS Door with Glass Window	A _ _ _ _	•	•	•	•	•	•	•	•	•
Heavy Duty SS Door with Acrylic Window	B _ _ _ _	•	•	•	•	•	•	•	•	•
Heavy Duty SS HTST Door	C _ _ _ _						•			•
Standard Door Latch	_0 _ _ _ _	n	n	n	n	n	n	n	n	n
Keyed Latch	_A _ _ _ _	•	•	•	•	•	•	•	•	•
Door Lock	_K _ _ _ _	q	q	q	q	q	q	q	q	q

Table V continued next page.



**RESTRICTIONS**

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
<b>c</b>		Not available with T/Cs B, N, R, W; but includes 200 ohm RTD actuation		
<b>d</b>	I	11 __, 31 __, 13 __, 33 __		
<b>e</b>	I	11 __, 31 __, 13 __, 33 __ Not available with T/Cs B, N, R, W; but includes 200 ohm RTD actuation		
<b>f</b>	I	111 __, 113 __, 131 __, 133 __, 311 __, 313 __, 331 __, 333 __		
<b>g</b>	I	111 __, 113 __, 131 __, 133 __, 311 __, 313 __, 331 __, 333 __ Not available with T/Cs B, N, R, W; but includes 200 ohm RTD actuation		
<b>h</b>		Available only with 4-20 mA control output		
<b>j</b>	I I	11 __, 31 __, 13 __, 33 __ 1 _ for Classic, 4 _ for Truline (DR45AT or DR45AR)		
<b>k</b>		Available only with chart rotations of 24 to 744 hours on Truline.		
<b>m</b>		Not available with UL, CSA or FM Agency Approvals	V	L __, W __, M __, N __, P __, C __, R __, T __, U __, S __
<b>n</b>			V	2 ____, 3 ____ 4 ____, 7 ____
<b>p</b>	I III	00, 60, 66 __ 0		
<b>q</b>		Not available with NEMA 4 or Heavy Duty Door options	V	2 ____, 3 ____ 4 ____, 7 ____ A ____, B ____ C ____
<b>r</b>	I I	11 __, 31 __, 13 __, 33 __ 6 __, (1 __, for DR45AP Model) available only with 4-20 mA control output		
<b>s</b>			V	7XXXXX
<b>t</b>		Not available with CE Mark Option	V	XXXKXX, XXXLXX, XXXMXX, XXXNXX, XXXWXX
<b>u</b>	I I	11 __, 31 __, 13 __, 33 __ 1 _ for Classic, 4 _ for Truline (DR45AT or DR45AR) Available only with 4-20 mA control output		

**Note 1:** Customer must supply Input Actuation Type and Range for each input in free form in order to have unit custom calibrated.