

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 _		•	•	c	•	•	•
	T/C, RTD, mV, 0-5 VDC, 4-20 mA, Radimatic	_ 1 _		•	•	c	•	•	•
	0-10 VDC	_ 3 _		•	•	c	•	•	•
	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

	Selection	Availability							
		DR45A	1	2	T	R	W	H	P
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
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	
NEMA 4 SST Door with Acrylic Window	3 _ _ _ _	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
Keyed Latch	_ A _ _ _	•	•	•	•	•	•	•	•
Door Lock	_ K _ _ _	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
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		Not available with UL, CSA or FM Agency Approvals	V	__ L __, __ W __, __ M __, __ N __, __ P __, __ C __, __ R __, __ T __, __ U __, __ S __
n			V	2 _____, 3 _____ 4 _____, 7 _____
p	II III	00, 60, 66 __ 0		
q		Not available with NEMA 4 or Heavy Duty Door options	V	2 _____, 3 _____ 4 _____, 7 _____ A _____, B _____ C _____
r	I II	11 __, 31 __, 13 __, 33 __ 6 __, (1 __, for DR45AP Model) available only with 4-20 mA control output		
s			V	7XXXXX
t		Not available with CE Mark Option	V	XXXKXX, XXXLXX, XXXMXX, XXXNXX, XXXWXX
u	I II	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.