

## Series 4300 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
One Pen Recorder	No Display	DR4301
Two Pen Recorder	No Display	DR4302
One Pen Recorder	With VFD Display	DR4311
Two Pen Recorder	With VFD Display	DR4312
One Pen Recorder	No Display/CE Mark	DR4321
Two Pen Recorder	No Display/CE Mark	DR4322
One Pen Recorder	With VFD Display/CE Mark	DR4331
Two Pen Recorder	With VFD Display/CE Mark	DR4332

**TABLE I - OUTPUT**

Pen One	None	0 ___	•	•	•	•
	2 Outputs (Alarm/On-Off Control)	2 ___			d	d
	1 PID Control with Accutune <b>Note 1</b>	3 ___			d	d
	1 PID Control/Setpoint Program/Timer <b>Note 1</b>	4 ___			d	d
	2 Outputs (Alarm1/Timer)	5 ___			d	d
	4-20 mA Retransmission Output <b>Note 4</b>	A ___			d	d
	FM Approved Limit Control	F ___			d	d
	FM Approved Limit Control/Timer Output	G ___			d	d
Pen Two	None	_ 0 _	•	•	•	•
	2 Outputs (Alarm/On-Off Control)	_ 2 _				e
	1 PID Control <b>Note 1</b>	_ 3 _				e
	1 PID Control/Setpoint Program/Timer <b>Note 1</b>	_ 4 _				e
	2 Outputs (Alarm1/Timer)	_ 5 _				e
	4-20 mA Retransmission Output <b>Note 4</b>	_ A _				e
	FM Approved Limit Control	_ F _				m
	FM Approved Limit Control/Timer Output	_ G _				m
Output Type Pen 1	None	_ _ 0 _	•	•	•	•
	Electromechanical Relay	_ _ E _			j	j
	Solid State Relay	_ _ S _			j	j
	Open Collector	_ _ T _			j	j
Output Type Pen 2	None	_ _ _ 0	•	•	•	•
	Electromechanical Relay	_ _ _ E				k
	Solid State Relay	_ _ _ S				k
	Open Collector	_ _ _ T				k

TABLE II - OPTIONS		DR43	Availability			
			01	02	11	12
			21	22	31	32
<b>Door Options</b>		<b>Selection</b>				
Gray Door		G _ _ _ _	•	•	•	•
Blue Door		B _ _ _ _	•	•	•	•
Gray Door with Key Pad		H _ _ _ _			•	•
Blue Door with Key Pad		C _ _ _ _			•	•
Black Door		K _ _ _ _	•	•	•	•
Black Door with Key Pad		L _ _ _ _			•	•
SST Door		R _ _ _ _	•	•	•	•
NEMA 4 SST Door		S _ _ _ _	•	•	•	•
Standard Latch		_ 0 _ _ _	n	n	n	n
Keyed Latch		_ A _ _ _	•	•	•	•
Door Lock		_ K _ _ _	p	p	p	p
<b>Instrument Power/Transmitter Power</b>						
Universal Power		_ _ 1 _ _	•	•	•	•
Universal Power +24VDC Transmitter Power		_ _ 3 _ _	•	•	•	•
<b>Communications</b>						
None		_ _ _ 0 _	•	•	•	•
RS 485 Modbus RTU Communication	<b>Note 5</b>	_ _ _ C _	•	•	•	•
<b>Product Configuration</b>						
Standard Factory Configuration		_ _ _ _ 0	•	•	•	•
Configuration for non-standard range settings	<b>Note 6</b>	_ _ _ _ 1	•	•		
Configuration to customer's specific data	<b>Note 6</b>	_ _ _ _ 2			•	•

TABLE III - PEN 1 Options

No Digital Inputs		0 _ _ _	•	•	•	•
Digital Inputs	<b>Note 3</b>	D _ _ _			f	g
None		_ 0 _ _	•	•	•	•
No Totalizer Function		_ _ 0 _	•	•	•	•
Totalizer		_ _ T _			h	h
Future		_ _ _ 0	•	•	•	•

TABLE IV - PEN 2 Options

No Digital Inputs		0 _ _ _	•	•	•	•
Digital Inputs	<b>Note 3</b>	D _ _ _				g
None		_ 0 _ _	•	•	•	•
No Totalizer Function		_ _ 0 _	•	•	•	•
Totalizer		_ _ T _				h
Future		_ _ _ 0	•	•	•	•

TABLE V - APPROVALS/CERTIFICATES	Selection	Availability			
		DR43			
		01	02	11	12
		21	22	31	32
No Approvals	0 _	•	•	•	•
UL Listing	U _	n	n	n	n
CSA Certification	C _	n	n	n	n
UL and CSA Approval	B _	n	n	n	n
No Certificates	_ 0	•	•	•	•
Certificate of Conformance (F3391)	_ 1	•	•	•	•
Certificate of Calibration (F3399) <b>Note 2</b>	_ 2	•	•	•	•
Certificate of Conformance & Calibration <b>Note 2</b>	_ 3	•	•	•	•

TABLE VI

Factory Use	000	•	•	•	•
-------------	-----	---	---	---	---

RESTRICTIONS

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
d			I	XX0X
e			I	XXX0
f			I	0XXX
g			I	0000
h			I	F ____, _ F __, G ____, _ G __
j			I	0 __ __
k			I	_ 0 __
m			I	2 ____, 3 ____, 4 ____, 5 ____, A ____, XXX0
n			II	S __ __ __
p			II	R __ __ __, S __ __ __

**Note 1:** PID Control Options include Current Output plus 2 Outputs for Alarms. If ON-OFF or Time Prop. Simplex Control is used only 1 Output is available for an alarm. Time Prop. Duplex Control requires the use of both Outputs and therefore no Relay Outputs are available for Alarms on that Pen. Accutune II Tuning is a standard feature with PID Control options.

**Note 2:** Customer must supply the Input Actuation and Range information for each input in the Free Form section of the order to have the unit supplied with a Certificate of Calibration.

**Note 3:** Digital Inputs are only available when ordering Outputs in Table I.

**Note 4:** 4-20 mA Retransmission Output includes 2 Outputs per pen for Alarms. You must specify the type of alarm outputs required (i.e. Relay, SS Relay, Open Collector Outputs).

**Note 5:** On Key #'s DR4301, 4302, 4321 and 4322 the communication address is fixed and requires the display assembly to change it. Only one DR4301 or DR4302 instrument and only 1 pen can exist on the network, otherwise communication conflicts will exist. Pen 1 is the default when communications is specified on these models.

**Note 6:** Recorder supplied with one box of 30755820-001, 0-100 Even "starter" charts. For special configuration of the range on the 4301/4302/4321/4322 Recorder, provide the following information in the Free Form Section of the order:  
*Input Type, Chart Range, Chart Speed, °C or °F, Eng. Units, Linear or Non Linear Chart Type*  
For example: Pen 1, "J" Thermocouple, 0-375°F, 7-Day Linear Chart  
Pen 2, 4-20mA, 0-1000, 7-Day Linear Chart  
For configuration on Models 4311, 4312, 4331 and 4332 customer must supply completed "Configuration Worksheets" with order for units to be Factory Configured.