

VRX 180 Video Recorder

Model Selection Guide

Instructions

- Make the desired selection from Tables I to VI.
The arrow to the right marks the selection available.
A dot (•) denotes unrestricted availability.

Key Number I II III IV V VI
 VRX180 - - - - - - -

KEY NUMBER	Selection	Availability
Description		
Video Recorder	VRX180	↓

TABLE I - ANALOG INPUTS

Analog Universal Inputs (slot A to F)	4 Universal Analog Inputs	04	•
	8 Universal Analog Inputs	08	•
	12 Universal Analog Inputs	12	•
	16 Universal Analog Inputs	16	•
	20 Universal Analog Inputs	20	•
	24 Universal Analog Inputs	24	•

TABLE II - ADDITIONAL INPUTS AND OUTPUTS

Slot J	None	0	•
	4 Universal Analog Inputs	A	•
	6 Digital Inputs (contact closure)	B	•
	6 Digital Inputs 24 Vdc	C	•
	6 Digital Inputs 120 / 240 Vac	E	•
	6 Relays Outputs	R	•
	6 Digital Outputs 24 Vdc (open collector) 6 Digital Outputs 120 / 240 Vac (triac)	G H	• •
Slot K	None	0	•
	4 Universal Analog Inputs	A	•
	6 Digital Inputs (contact closure)	B	•
	6 Digital Inputs 24 Vdc	C	•
	6 Digital Inputs 120 / 240 Vac	E	•
	6 Relays Outputs	R	•
	6 Digital Outputs 24 Vdc (open collector) 6 Digital Outputs 120 / 240 Vac (triac)	G H	• •
Slot L	None	0	•
	4 Universal Analog Inputs	A	•
	6 Digital Inputs (contact closure)	B	•
	6 Digital Inputs 24 Vdc	C	•
	6 Digital Inputs 120 / 240 Vac	E	•
	6 Relays Outputs	R	•
	6 Digital Outputs 24 Vdc (open collector) 6 Digital Outputs 120 / 240 Vac (triac)	G H	• •
Slot M	None	0	•
	4 Universal Analog Inputs	A	•
	6 Digital Inputs (contact closure)	B	•
	6 Digital Inputs 24 Vdc	C	•
	6 Digital Inputs 120 / 240 Vac	E	•
	6 Relays Outputs	R	•
	6 Digital Outputs 24 Vdc (open collector) 6 Digital Outputs 120 / 240 Vac (triac)	G H	• •

TABLE II - ADDITIONAL INPUTS AND OUTPUTS (continued)

		Selection	
Slot N	None	0	•
	4 Universal Analog Inputs	A	•
	6 Digital Inputs (contact closure)	B	•
	6 Digital Inputs 24 Vdc	C	•
	6 Digital Inputs 120 / 240 Vac	E	•
	6 Relays Outputs	R	•
	6 Digital Outputs 24 Vdc (open collector)	G	•
	6 Digital Outputs 120 / 240 Vac (triac)	H	•
	4 Current Outputs	M	•
Slot P	None	0	•
	4 Universal Analog Inputs	A	•
	6 Digital Inputs (contact closure)	B	•
	6 Digital Inputs 24 Vdc	C	•
	6 Digital Inputs 120 / 240 Vac	E	•
	6 Relays Outputs	R	•
	6 Digital Outputs 24 Vdc (open collector)	G	•
	6 Digital Outputs 120 / 240 Vac (triac)	H	•
	4 Current Outputs	M	•

TABLE III - FIRMWARE - DATA STORAGE

Control Loops (Notes 1, 5)	None	0	•
	1 Control Loop	1	•
	2 Control Loop	2	•
	4 Control Loop	4	•
	6 Control Loop	6	•
	8 Control Loop	8	•
Set Point Programs (Note 4)	None	0	•
	1 Set Point Program	1	•
	2 Set Point Program	2	•
	3 Set Point Program	3	•
	4 Set Point Program	4	•
Math (Note 2)	Standard Math	0	•
	Advance Math	1	•
	Advance Math and 4 Totalizers	2	•
	Advance Math and 48 Totalizers	3	•
Data storage (Note 6)	120 Mb disk drive	1	•
Other	None	0	•

TABLE IV - COMMUNICATION

Communication	None	0	•
	RS485 - Modbus RTU	C	•

TABLE V - OPTIONS

Documentation (prompts language, manual)	English - (U.S. format)	U	•
Certificates	None	0	•
	Certificate of Conformance	B	•
	Calibration Certificate (note 3)	C	•
	Calibration and Conformance Certificates (note 3)	E	•
Tagging	None	0	•
	Linen	L	•
	Stainless steel	S	•
Approvals	CE Mark Compliant	0	•
	CSA/NRTLc/CE Mark	C	•

TABLE V - OPTIONS (continued)

		Selection	↓
Software	None	0	•
	SDA and SCF	B	•
	SCF (Configuration Software)	C	•
	SDA (Data Analysis Software)	E	•
Case	Galvanized Case, Grey Door, Glass Window, Latch	0	•
	Galvanized Case, Grey Door, Glass Window, Key Lock	1	•
	Galvanized Case, Grey Door, Plastic Window, Latch	2	•
	Galvanized Case, Grey Door, Plastic Window, Key Lock	3	•
	Portable Case (Painted Case, Handles)	6	•

TABLE VI

Factory Use Only	00	•
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SOFTWARES AND SUPPORT PARTS

	Part #	•
SDA Data Analysis Software (can be ordered separately if not selected in Table V)	045501	•
SCF Configuration Software (can be ordered separately if not selected in Table V)	045502	•
SDI Disk Initialization Software (Note 6)	46193351-501	•
Kit of 4 resistors 250 Ohms for 4-20 mA input	46181080-503	•

Notes:

- The available algorithms include: PID (standard and advance), Cascade, Split Output and On/Off. The appropriate outputs from Table I must be specified - Current or Relays. If Split (Duplex) output Control is required, advance math must be selected (Table III).
- Standard Math includes 24 Calculated Values and the following pre-packaged algorithms

Free Form Math	Logic Operators	Flip-Flop/One Shot	Periodic Timer
Free Form Logic	Math Operators	Invertor	

 Advance Math includes 64 Calculated Values and the following additional of pre-package algorithms.

Signal Select	Interval Timer	Counter
Compare	Relative Humidity	Scaling
Signal Clamp	Mass Flow	Advanced Splitter
Peak Picking	Fo Calculation	Continuous Emissions Monitoring
Function Generator	Multiple Input Average	- CEM Block Average
Carbon Potential	Single Point Average	- CEM Rolling Average
Rolling Average	Standard Splitter	
- Customer must supply Input Actuation Type and Range for each input for inclusion in the free form section of the Factory order to supply the Custom Calibration Certificate, otherwise the calibration will be based on the factory default ranges.
- When selecting SP program make sure to select analog output (current) as necessary (Table II slot N,P).
- When selecting Control loops, make sure to select outputs (as necessary in Table II)
- Provided with each VRX180 are : one pre-initialized 120 Mb disk and one SDI software pack. SDI software should be installed on a PC and used for initialization of new disks. Note : The VRX180 disk drive is compatible with 1.44 Mb floppy disks.