

VRX180 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

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

| 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) | G _ _ _ _ | • |
| | 6 Digital Outputs 120 / 240 Vac (triac) | 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) | _ G _ _ _ | • |
| | 6 Digital Outputs 120 / 240 Vac (triac) | _ 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) | _ _ G _ _ | • |
| | 6 Digital Outputs 120 / 240 Vac (triac) | _ _ 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) | _ _ _ G _ | • |
| | 6 Digital Outputs 120 / 240 Vac (triac) | _ _ _ 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 (Note 7) | _____ 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 Loops | 2 _ _ _ _ | • |
| | 4 Control Loops | 4 _ _ _ _ | • |
| | 6 Control Loops | 6 _ _ _ _ | • |
| | 8 Control Loops | 8 _ _ _ _ | • |
| Set Point Programs (Note 4) | None | _ 0 _ _ _ | • |
| | 1 Set Point Program | _ 1 _ _ _ | • |
| | 2 Set Point Programs | _ 2 _ _ _ | • |
| | 3 Set Point Programs | _ 3 _ _ _ | • |
| | 4 Set Point Programs | _ 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) | 100 Mb ZIP Drive | _ _ _ 2 _ | • |
| Other | None | _ _ _ _ 0 | • |

TABLE IV - COMMUNICATION

| | | | |
|---------------|--------------------|---|---|
| Communication | None | 0 | • |
| | RS485 - Modbus RTU | C | • |
| | Ethernet Interface | E | c |

TABLE V - OPTIONS

| | | | |
|--|---|-----------|---|
| Documentation (prompts language, manual) | English | E _ _ _ _ | • |
| | French | F _ _ _ _ | • |
| | German | G _ _ _ _ | • |
| | Italian | I _ _ _ _ | • |
| | Spanish | S _ _ _ _ | • |
| 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 _ _ | • |

TABLE V - OPTIONS (continued)

| | | Selection | |
|-----------|--|-----------|---|
| Approvals | CE Mark Compliant | ___ 0 __ | • |
| | CSA/NRTLc/CE Mark | ___ C __ | • |
| Software | None | ___ 0 __ | • |
| 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 | ___ 6 __ | • |

TABLE VI

| | | |
|------------------|----|---|
| Factory Use Only | 00 | • |
|------------------|----|---|

SOFTWARE 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 | • |
| TrendManager Pro V5 | TMPCON5 | • |

RESTRICTIONS

| Restriction Letter | Available With | | Not Available With | |
|--------------------|----------------|-----------|--------------------|--|
| | Table | Selection | Table | Selection |
| c | | | II | ___ A, ___ B, ___ C, ___ E, ___ R, ___ G, ___ H, ___ M |

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 disk and one SDI software pack.
SDI software should be installed on a PC and used for initialization of new disks.
- Must purchase Table II ___ M _ in order to select Table II Selection ___ M.