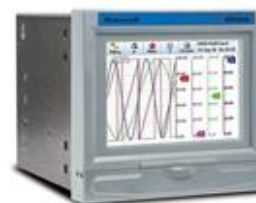


## Trendview Minitrend Recorder

## Model Selection Guide



The Minitrend represents the latest in data acquisition and recording. Standard features include Ethernet communications, multiple USB ports, touch screen interface for easy configuration and navigation, a single digital output along with a wide selection of optional features to handle most data acquisition applications.

### Instructions

Make the desired selections from Option Tables using the column below the arrow.  
A dot (•) denotes unrestricted availability. Restrictions follow Table VII.

Key Number    I    II    III    IV    V    VI    VII  
 [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

### KEY NUMBER

### Selection    Availability

Minitrend GR Advanced Graphics Recorder	TVMIGR	↓	↓
Minitrend QX Advanced Graphics Recorder	TVMIQX	↓	↓

**TABLE I - ANALOG INPUTS/OUTPUTS**

Slot A	None	0 _	•	•
	Four Analog Inputs (Note 1)	4 _	•	•
	Six Analog Inputs (Note 1)	6 _	•	•
	Eight Analog Inputs (Note 1)	8 _	•	•
	Four Pulse Inputs	P _	•	•
Slot B	None	_ 0	•	•
	Four Additional Analog Inputs (Note 1)	_ 4	g	g
	Six Additional Analog Inputs (Note 1)	_ 6	f	f
	Eight Additional Analog Inputs (Note 1)	_ 8	f	f
	Four Additional Pulse Inputs	_ P	f	f
	Two Analog Outputs	_ A	•	•
	Four Analog Outputs	_ B	•	•

**TABLE II - DISCRETE INPUTS/OUTPUTS**

Discrete Inputs/Outputs (Slot G)	None (One Discrete Output Supplied Standard)	0	•	•
	Four Relay Outputs	1	•	•
	8 Relay/2 Digital Inputs-6 Fixed Outputs/2 Configurable DI or DO (Note 2)	2	•	•
	8 Configurable Digital Inputs/Discrete 24V Relay Outputs (Note 3)	3	•	•
	16 Configurable Digital Inputs/Discrete 24V Relay Outputs (Note 3)	4	•	•

**TABLE III - POWER**

Power	90 - 240 VAC with IEC Power Plug	1 _	•	•
	90 - 240 VAC with US Power Cord	2 _	•	•
	90 - 240 VAC with IEC Power Plug/Transmitter Power	3 _	•	•
	90 - 240 VAC with US Power Cord/Transmitter Power	4 _	•	•
	24/48VDC - 24VAC Instrument Power (Note 4)	5 _	•	•
	12-35VDC - 24VAC Instrument Power (Note 4)	6 _	•	•
Input Frequency	50 Hz (Note 11)	_ 1	•	•
Filter Value	60 Hz (Note 11)	_ 2	•	•

**TABLE IV - INTERNAL MEMORY FOR DISPLAY/DATA STORAGE**

Memory Card	180 MBytes (QX Version)    1Gb (GR Version)	0	•	•
Expansion	890 MBytes (QX Version)    2Gb (GR Version)	1	•	•
	1850 Mbytes (QX Version)    4Gb (GR Version)	2	•	•
	1Gb Internal Memory + 8GB Front SD Card	3	•	•
	2Gb Internal Memory + 8GB Front SD Card	4	•	•
	4Gb Internal Memory + 8GB Front SD Card	5	•	•

TABLE V - FIRMWARE CREDITS/OPTIONS

		TVMIQX		TVMIQX	
		Selection		Availability	
Security/Firmware Credits	Standard Passwords	0	--	•	•
	ESS (Permanent Password Capability)	S	--	•	•
	None	_	0 _	•	•
	Five Credits	_	F _	•	•
	Ten Credits	_	1 _	•	•
	Twenty Credits	_	2 _	•	•
	Thirty Credits	_	3 _	•	•
	Fifty Credits	_	5 _	•	•
	Seventy Five Credits	_	7 _	•	•
	Ninety Nine Credits	_	9 _	•	•
Future	None	--	0	•	•

**CREDITS** - Decide what functions are needed and select that many total "Credits" when ordering firmware options.  
 For Example: If Math, Events and Totals are needed for the application, sum the values for each function listed below to determine the number of credits to purchase. Additional credits are available if needed using the Upgrade Procedure  
 Credits can be selected/deselected and used interchangeably as long as the total credits purchased is not exceeded.  
 Maximum number of credits required to enable all functions is 82 credits.

VALUE / FUNCTION	
2	Health/Maintenance
2	Print Function (USB)
2	Extra Pens
2	Config Lock out
3	Remote Viewing
3	Reports
3	e-Mail

(Note 13)  
(Note 6)  
(Note 20)

VALUE / FUNCTION	
3	Secure Comm (https)
3	Counters
4	Totals
4	Full Maths
4	Custom Screens
5	Fast Scan

(Note 20)  
(Note 14)  
(Note 5)

VALUE / FUNCTION	
5	Batch
5	AMS2750 Process Mode
5	Password Net Sync
6	Events
6	FF Math & Scripts
8	OPC Server Interface
10	Modbus Master

(Note 17)  
(Note 12)  
(Note 18)  
(Note 16)

TABLE VI - OPTIONS

		TVMIQX		TVMIQX	
		Selection		Availability	
Case/Mounting	Standard Panel Mounting	0	-----	•	•
	Standard Panel Mounting with Rear cover	R	-----	•	•
Documentation Manuals (Note 15)	Product Information on CD with TrendViewer	_	0 -----	•	•
	English Manual & Language Prompts with TrendViewer	_	U -----	•	•
	French Language Prompts Manual with TrendViewer	_	F -----	•	•
	German Language Prompts Manual with TrendViewer	_	G -----	•	•
	English Manual & English/Chinese Prompts & TrendViewer (Note 21)	_	C -----	•	•
	English Manual & English/Korean Prompts & TrendViewer (Note 19)	_	K -----	•	•
	English Manual & English/Japanese Prompts & TrendViewer (Note 21)	_	J -----	•	•
Tagging	None	--	0 ---	•	•
	Stainless Steel Tag (Note 7)	--	S ---	•	•
	1 Year Extended Warranty and GTS Support	--	1 ---	•	•
	2 Year Extended Warranty and GTS Support	--	2 ---	•	•
	1 Year Extended Warranty and GTS Support and SS Tag (Note 7)	--	T ---	•	•
	2 Year Extended Warranty and GTS Support and SS Tag (Note 7)	--	U ---	•	•
Standards	CE Mark/IP55/NEMA 3	---	0 --	•	•
	CE Mark/IP66/NEMA 4X	---	1 --	•	•
	CE Mark, UL Listed & CSA Approval/IP55/NEMA 3	---	2 --	•	•
	CE Mark, UL Listed & CSA Approval/IP66/NEMA 4X	---	3 --	•	•
	CE Mark/FM CL 1 DIV 2	---	5 --	•	•
	CE Mark, UL Listed & CSA Approval/FM CL1 Div 2/IP66/NEMA 4X	---	7 --	•	•
Certificates	None	---	0 _	•	•
	Certificate of Conformance (F3391)	---	B _	•	•
	Custom Calibration Test Report (F3399) (Note 8)	---	C _	•	•
	Certificate of Conformance & Calibration Test Report (Note 8)	---	E _	•	•
Software (Note 9)	None	---	0	•	•
	Trend Manager Pro (Single User License)	---	P	•	•
	Trend Server Pro (Single User License)	---	S	•	•
	Trend Server Pro with OPC capability (Single User License)	---	T	•	•
	Screen Designer with Trendviewer	---	E	•	•
	Screen Designer with Trend Manager Pro (Single User License)	---	F	•	•
	Screen Designer with Trend Server Pro (Single User License)	---	G	•	•

TVMIGR  
TVMIQX

Selection Availability

TABLE VII

Factory Use Only	Standard Honeywell Version (Black for X-Series, Grey for GR Recorder) Black Color Bezel, Standard Honeywell labeling	000	•	•
		014		•

# RESTRICTIONS

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
f			I	0 _
g			I	0 _, 4 _, P _

## Notes:

- Standard inputs include T/C, mV, V, Ma, Ohms and RTD actuations.
- Relay Outputs are high level outputs (240VAC/3 Amp non-inductive loads).
- Discrete Outputs are low level outputs (24VDC/1 Amp non-inductive loads).  
Any channel on the 8 or 16 Discrete I/O Card can be used as a Digital Input if not used as an Alarm Output.
- For 24V Instrument Power, the Input Filter Frequency Noise Rejection can be set for either 50 or 60 Hz
- Fast Scanning only applies when an input is configured as linear (mV, V, Ma) inputs.
- 4 Extra Pens; Maximum number of Extra Pens available is 16.  
Extra Pens using can be used to write analog values to the recorder the Modbus protocol without needing the full complement of analog inputs. Using all the virtual pens with many complicated maths and other functions may affect the recorder's performance.
- Customer must supply tagging information, Up to 3 lines of 22 characters each are allowed
- Calibration Test Reports/Certificates require specific Range and Input Actuation data from the customer.  
Form F3399 Supplemental Data must be completed. This can be downloaded from the Honeywell SaleNet site or the Global Technical Services site: <http://content.honeywell.com/ipc/faq/>>
- Software Packages can be ordered separately (see Accessories price page)
- N/A
- The 50/60 Hz setting can be changed in the recorder setup to match the local power conditions. It can be ordered set for either 50Hz or 60Hz. This setting should match the local powerline frequency to provide the best noise rejection.
- The events currently include: Into, Out of and Alarm Ack, Start, Stop, Reset, Reset & Start Totals, Digital Input ON/OFF/State Change, T/C Burnout, Mark Chart, Start/Stop Logging, Digital Output ON/OFF, Scheduled - Once/Interval/Specific Days/Month End, User Counters, Reset Max/Mins, Emails, Screen Change, Print Screen, Counters - Reset/Increment, Chart Control - Pause/Stop/Resume/Clear/Prefill, Clear All Messages, System - Power ON, Setup Change, Internal Memory Low, Export Memory Low, FTP Memory Low, User Action - Mark Chart, Batch - Start/Stop/Pause, Delayed Event, Script Timers - Start/Stop/Reset/Reset & Start, Play Sound - Start/Stop, Display Alert, Reports, TUS - Start/Stop, AMS2750 Timer - TC Timers/Process Timers, Update Tabular Readings.
- The Printer function can print screens from the Recorder to a PCL type printer.
- Custom Screen credits provide the ability to load custom screens into the recorder;  
the X-series Screen Designer software is required for designing these custom screens at the PC.
- The recorder supports local language prompts for the following languages: English, French, German, Italian, Spanish, Brazilian, Polish, Hungarian, Slovakian, Czech, Turkish, Romanian, Russian, Portuguese, Greek and Bulgarian.  
For Chinese option, it does not contain Korean or Japanese prompts, for Japanese Option it does not contain Chinese or Korean prompts and for Korean option it does not contain Chinese or Japanese Prompts.
- To write Modbus Slave values to the pens using Modbus Master requires FF Math or MathScripts to assign these values to a pen.
- AMS2750 Process Mode credits allow the user to monitor T/C Usages, SAT Cal Due Date, TUS Due Date, Instrument Cal Due Date and Control T/C Due Date.
- OPC Server function not available in Minitrend GR Recorder
- Korean Language Prompt are included in \_ 0 \_ \_ \_ \_ , \_ U \_ \_ \_ \_ , \_ F \_ \_ \_ \_ , & \_ G \_ \_ \_ \_ Table VI options, does not include Chinese & Japanese prompts for the Minitrend GR Recorder.
- Only available in Minitrend GR Recorder
- For the Minitrend GR Recorder, option includes Chinese & Japanese prompts plus all other languages except Korean Prompts .