APP-702 Compact Recorder ™

Multifunction DFR, SER, DDR, PMU

Recording

- Transient Recording
- Extended RMS Recording
- Extended Oscillography Recording
- Continuous Oscillography Recording
- Trend Recording
- Continuous RMS, Phase, Frequency Recording

Computer

- Embedded Industrial Computer
- 64GB Solid State Drive
- No Moving Parts

Options

- 128GB SSD, 256GB SSD, 1TB HDD
- 601 Monitor & Keyboard Chassis
- Fiber
- Clamp On CT's
- Use as APP-601 Computer Control Chassis
- Use has a Portable Unit

Front

Rear

Seven Configurable Analog/Event Card Slots
(18 Analog, 8 Events Shown)

Features

Hardware	Software
Easy Expandability (Add 601 Data Chassis)	Includes APP Recorder & APP ClearView
IP Configurable	Password Protection, IP Address Permissions, & Comm Logging
Data Aligned to 1PPS within 1usec	Configure Locally or from the Master Station
Modulated or Un-Modulated IRIG-B	COMTRADE Records Directly from Recorder
Configured to Voltage or Current	Automatic Tasks: Comm Names, PQDIFF, Diagnostics, Calling
Wide Voltage & Current Input Range	Polling, Emailing, FTP, Record Backups, Updates, Alarm, Reporting,
DC Coupling	Trace Files, & Printing
Eight Output Relays	File Transfer Feature Allows Any File Transfer from Recorder
Easy Access Power Supply Modules	To Master, Local/Remote Test Run, Reboot, Reinitialize
Easy Access Embedded Computer Board	

Specifications (APP-702)

Analog Channels

Voltage:
  Base 18 analog channels (Can be expanded)
  Up to 440VAC Max True DC Coupling
  Rin 100KΩ
  Accuracy 0.15% of reading + 0.005% of range
  (typical)
Current:
  2mΩ Internal Shunt
  15A RMS Continuous
  140A RMS for 2 sec, 250Arms for 1/2 sec Accuracy
  0.61% of reading + .005% of range (typical)
General:
  16 Bit A/D
  Data aligned with 1PPS rising edge, Ch to Ch
  phase angle error <0.004º , Cut-off frequency
  (-3db) 5KHz, Common Mode Rejection 80dB,
  Channel to channel isolation 3500VDC Channel to
  ground isolation 3500VDC

Event Channels

Base 8 event channels (Can be expanded)
Standard input operating range 45-250VDC (24VDC
option available)
Channel to channel isolation 3500VDC Channel to
ground isolation 3500VDC

Power Supply

Voltage Range: 86 to 370 VDC or
 88 to 264 VAC
Frequency Range: 47 to 63 Hz
Overload, Over Voltage,
Over Temperature Protection
Power @ 125VDC and 18 analog channels
and 8 event channels is approximately 25W. Input to
ground isolation 3500VDC

Timing

Modulated or Un-modulated IRIG-B Data
aligned to 1PPS within 1usec
1PPS in/out chassis to chassis
Internal 1PPS backup

Communications

Recorder to Master Station
  TCP/IP Ethernet 10/100
  Optional Modem
DNP-3, Modbus
  RS-232
  Ethernet 10/100
PMU
FTP

Status Relays

8 alarm outputs, N.O. or N.C, SPST
Contact ratings: 10A Cont. & Break 0.5A @
  125VDC, Break 0.35A @ 250VDC, Dielectric
  5KVac
Alarms
  Power, Online, Offline, Clock Sync Loss, Chassis to
  Chassis Comm., Master Comm., Disk Full, Tempera-
  ture, Computer, Tran Record, SOE Record, Disturbance
  Record, and Continuous Record
  (additional outputs available)

Enclosure

19" Rack x 5.25"H x 9.8D"
Weight: Approximately 15lbs

Compliant Standards

ANSI/IEEE C37.90.1 (Surge Withstand), IEC 60255-
22-1 Cat III (Osc.), IEC 60255-22-4 Cat IV (EFT),
IEC 60255-5 Cat IV (Isolation), IEC 60068-2 –1
(Cold), IEC 60068-2-2 (Hot), IEC 60068-2-30
(Damp Heat), ANSI/IEEE C37.111 (COMTRADE),
ANSI/IEEE C37.232-2007 (Com Names)

Environment

Temperature range with SSD –20° to 55°C