

AMX-2200

Digital Fault Recorder



■ KEY FEATURES

Compact "All-in-type" measurement device

Built-in Printer, Input Unit, LCD display and communication interface.

Simplified Operation

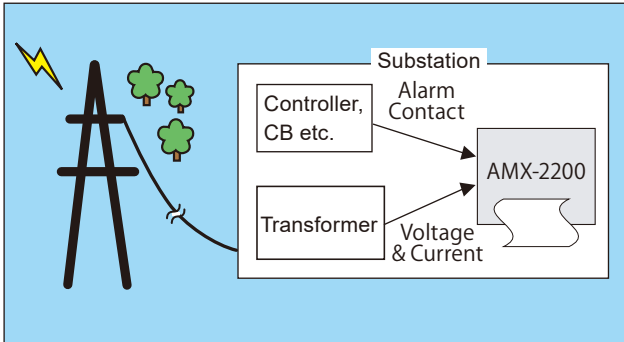
Keypads and LED's on the front panel are available for simplified basic setting and daily operation without PC.

OVERVIEW

APPLICATIONS

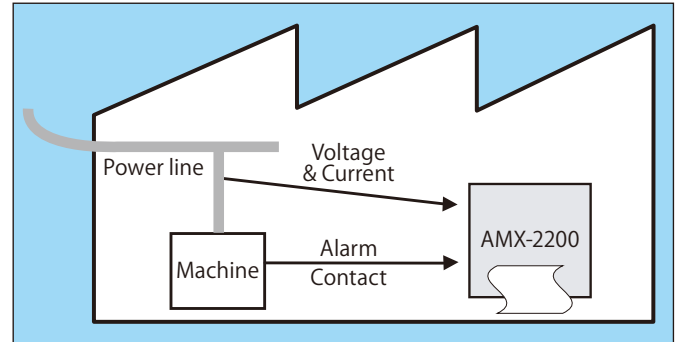
1) Fault data recording for power system

Checking malfunction of the protection and control system



2) Power quality data recording for power network

Checking Sags/swells etc. in a factory, or plant



Analog and Digital Input circuits in single enclosure

16ch Analog Inputs (CT/ VT)

32ch Digital Inputs

Sampling frequency

3,840Hz for 60Hz system / 3,200Hz for 50Hz system

Highly operable Human Machine Interface

Keypads and LED's on the front panel are available for simplified basic setting

Build in web server for web browswe setting

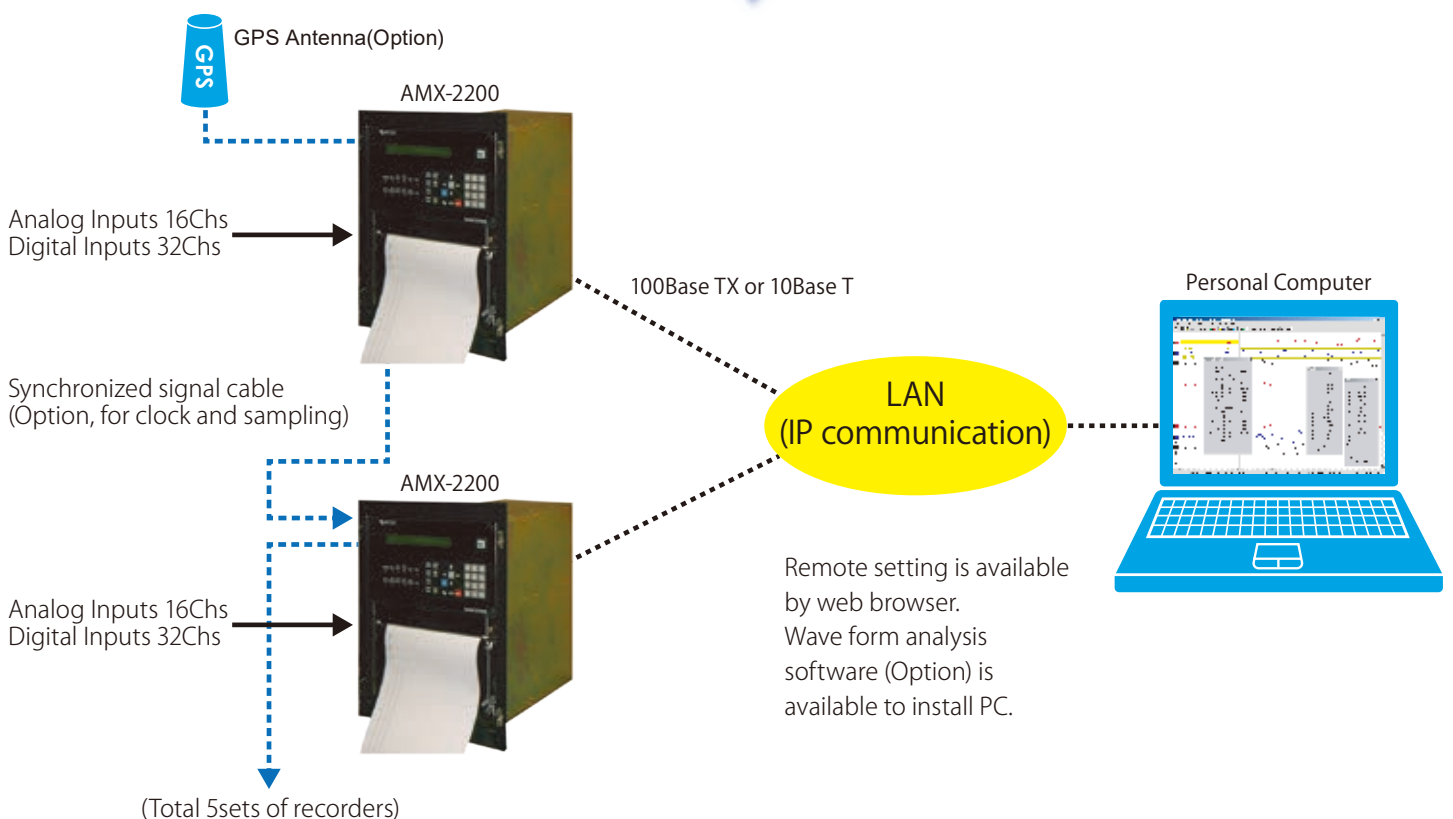
Available Options

Waveform Analysis Software (Option)

GPS Antenna (Option) : GPS Sync. is available

Compability Panel(Optional) : Adaptor panel for AMX-1600 is available.

FAULT RECORDER SYSTEM (Example)



FUNCTIONS

Digital Fault Recorder

Monitoring Analog and Digital Input elements and recording data by triggered situation in electric power systems.

● Triggering

- Analog Input: Under / Over voltage, Over current
- Digital Input: NO or NC for each channel
- Others: External/ Programmable, Remote control, Manual

● Recording

- Length Pre-fault : 0.2 -1.0 sec / Post-fault 1.0 - 10 sec Total 5-10 sec
- Number of Record: 100 data (Cyclic recording)

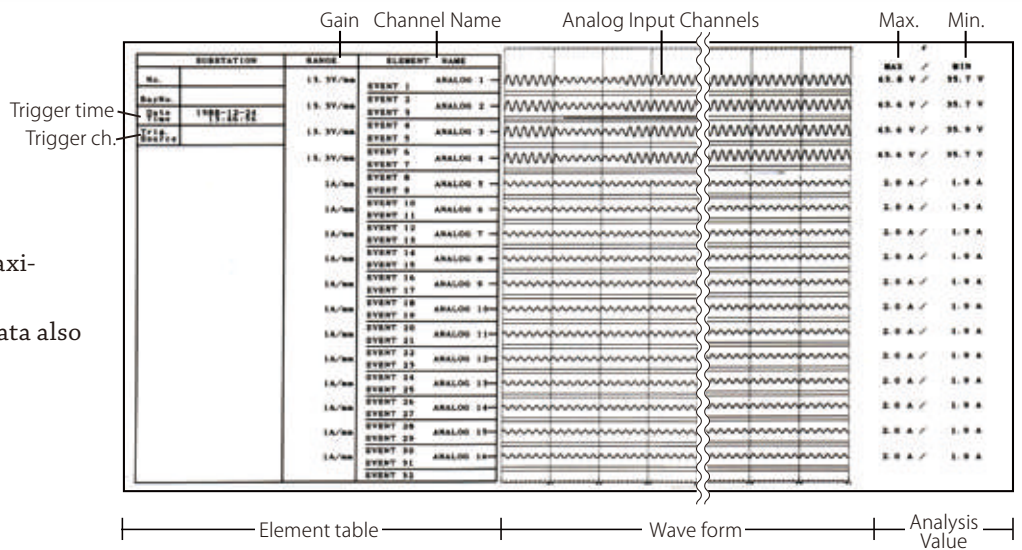
About "SAGS" (VOLTAGE DIPS)

Voltage sags are most often a result of faults on the power system. Characterizing voltage sag performance has become increasingly important, as industries have automated their processes and become more dependent on sophisticated electronic equipment.

● Voltage dip data for PC

- Line voltage (RMS value) before triggering (Preceding 3 cycles before detection)
- Min. RMS value during failure
- Voltage drop rate (%)
- Failure duration (ms and cycles)
- Trigger detection time

PRINT-OUT



Fault data with elements table and maximum/minimum value.

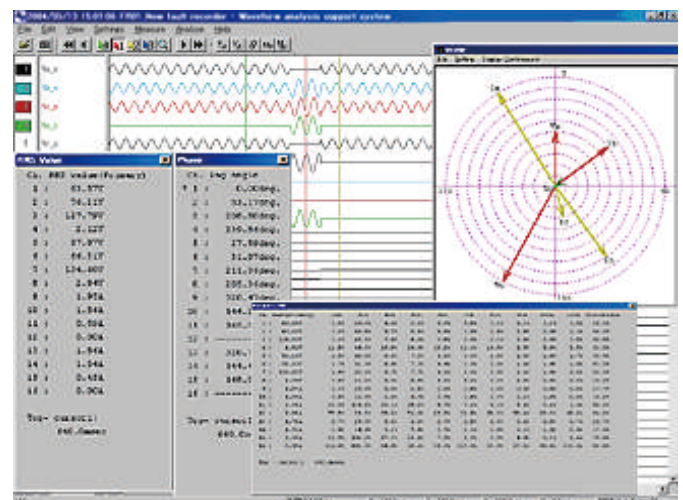
By option, numerical print of "sags" data also available.

OPTION

Waveform Analysis Software

Waveform data are displayed, measured and analyzed, by a personal computer connected to local area network.

Printing the waveform data are also available through the computer.



SPECIFICATIONS

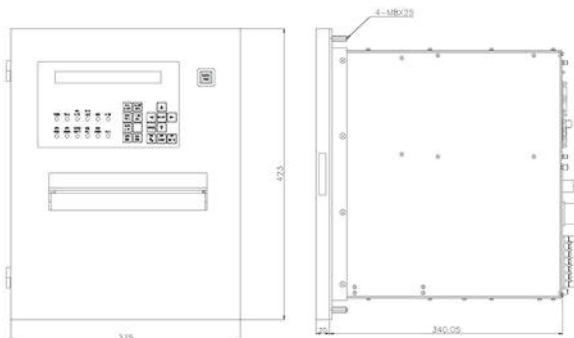
Model	AMX-2200 (w/printer)	
Number of Input Channels	Analog Inputs: 16ch. Digital Inputs: 32ch.	
A/D resolution	16bit	
Sampling frequency	3840Hz (60Hz area), 3200Hz (50Hz area)	
Data Storage	Buffer area	32MB
	Data area	256MB Silicon disk (100 data for faults, 200 data for voltage dips)
Recording length	Pre-fault: 0.2 ~ 1.0 sec. Post-fault: 1.0 ~ 10 sec. Total: 5 ~ 10 sec.	
Printer	Method	Thermal type dot-line printer
	Resolution	8 dots / mm
	Paper	216mm(W)×100m roll、 Thermal sensitive paper
Triggering	Analog input	Analog Input Digital Input
	Event input	NO or NC for each channel
	Other	External, Programmable, Remote control, Manual
Communication	Interface	LAN : 100/10Mbps(100BaseTX, or 10BaseT) IEEE802.3 compatible
	Data	Element table, waveform data, Data index
Clock	Display	Year to second, 24hours, automatic calendar, Accuracy : 4sec./week
	Adjustment	Manual : By time signal sent from personal computer Automatic : By external input, By GPS signal(optional)
Display	LCD	40 characters×2Line, Clock, input monitor, setting data
	LED	Power, trigger, communication, alarm, memory full
Self-diagnostic	Automatically, watch dog timer	
External I/F	Network	LAN (100BaseTX, or 10BaseT)
	Time sync.	Connector I/O (Using GPS by option)
	Sampling sync.	Connector I/O
Alarm output	Alarm signal, Operation signal Dry contact (1a) output	
Power supply	DC110V(88 ~ 143V)、AC100V (85 ~ 130V) 150W or less	
Dielectric strength and Insulation	Among input, power supply, and case AC2000V 50/60Hz for 1 minute, and 50MΩ or over	
EXTERNAL DIMENSIONS and MASS	335(W)×423(H)×340(D) mm, 25kg or less	
Option	Voltage dips	RMS value (pre trigger, and minimum value) and dips ratio for line voltage, Time period, trigger time
	Terminal adapter	For wiring in panel (By ordering specifications)

REQUIREMENTS FOR PERSONAL COMPUTER

Software for remote PC	Setting AMX:Internet Explorer Ver.6 or later (Using Web browser) Analyzing wave-form Data :WAVE-FORM ANALYZER (Kinkei System Corp.)
Network	LAN (100BaseTX, or 10BaseT)
Connection	By cross cable of 100BaseTX directly, or via Ethernet LAN

DIMENSIONS

● AMX-2200 external view



● PANEL CUT-OUT

