

TRANSCAN Digital Fault Recorders



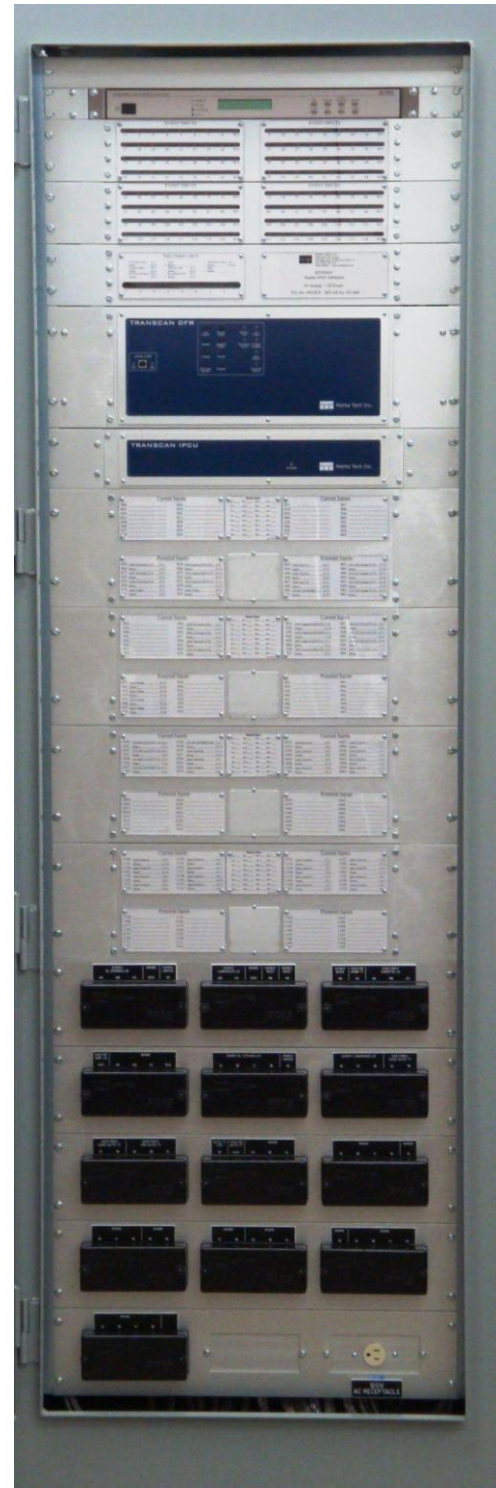
Mehta Tech is a manufacturer of high-speed automatic data collection and recording devices used to continuously monitor electric power delivery systems. Our DFR system with Continuous Recording exceeds NERC's DDR requirements (PRC-002).

More than 1,700 DFRs have been supplied to over 100 customers during our 20+ years in business, giving us the largest installed base of DFRs in the US. We are involved in customer-specific R&D to conceive, test and prove industry innovations, and are recognized as a company that has led market development in many areas.

TRANSCAN DFRs are modular in design. This enables our customers to inexpensively upgrade or expand their installed systems to the latest level of hardware and software to satisfy ever-changing regulatory environment.

Systems can be supplied for new installations in open racks or cabinets, as retrofit units to replace existing recording equipment, or as a complete turnkey installation.

We lead the industry with our depth of site-specific project planning and service, including customized documentation. We can assist your personnel to install, commission and maintain systems. Our technical hotline offers telephone support at no charge and covers all aspects of system operation.



Specification Summary

ANALOG CHANNELS (CURRENT OR VOLTAGE)

16 to 64 per chassis. Larger systems can be built by using cross-triggering

AC CURRENT INPUT RANGE (CTs)

5 A nominal; 12 A continuous; 63 A one minute; core saturation @ 60 Hz = 140 A. 1 A input optional. Options for split-core, clamp-on and Transig interfaces

AC POTENTIAL INPUT RANGE (VTs)

67 to 120 Vac nominal, 100% over-range

ISOLATION FREQUENCY RESPONSE

CT inputs: 100 A maximum, < 3 dB from 1.0 Hz to 10 kHz

VT inputs: 150 V maximum, < 3 dB from 4 Hz to 10 kHz

DC isolation: < 3 dB from DC to 2.5 kHz

AC INPUTS BURDEN

CT: Less than 1 VA at 5 A nominal

VT: Less than 0.25 VA

EVENT CHANNELS

16 to 128 per system cabinet

DIGITAL (EVENT) INPUT RANGE

5 to 250 V; wet or dry inputs

ALARM OUTPUTS

Six status and alarm outputs; 150 Vdc, 125 mA contact rating, NO or NC

ELECTRICAL TESTS

Dielectric: IEEE C37.90

SWC: IEEE C37.90.1

SCAN RATE (60Hz applications)

720 to 5,760 samples/second

A/D RESOLUTION

16-bit A/D converters

INTERNAL MEMORY

16MB standard, 32MB optional

255 record capacity, non-volatile solid-state storage.

RECORD LENGTH PARAMETERS

Pre-trigger and post-trigger periods; minimum and maximum record lengths

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SOFTWARE TRIGGERS

Standard digital: Change from normal to abnormal state; any change of input state

Standard analog: Over and under voltage; over current; negative, zero, and positive sequence; frequency (over and under); rate-of-change of voltage

COMMUNICATION Interfaces

Front panel USB port, rear panel RS-232 ports; up to 115.2 kbps standard. Internal modem; optional 10/100 Mbps Ethernet interface

OPTIONAL Continuous Recording

IPCU (Information Processing & Communications Unit) with 100 Mbps Ethernet, network / e-mail support, 30+ day once-per-cycle continuous recording functionality for disturbance / long term recording applications, 8GB Flash and 40GB Hard Drive for fault and disturbance record storage

TIME REFERENCE

IRIG-B time stamp; internal CMOS clock. GPS clock / receiver optional

OPERATIONAL POWER REQUIREMENTS

90 to 350 Vdc; 90 to 250 Vac, 47-440 Hz
Optional 48 Vdc

PHYSICAL DIMENSIONS (inches)

Isolation Unit: 17.5" W x 6.0" D x 7.0" H (or 3.5")

Electronics chassis: 17.5" W x 15.0" D x 7.0" H

Rack-mounted: 22" W x 90" H or 27" W x 90" H

Cabinet-mounted: 29" W x 29" D x 90" H (typical)

WEIGHT (pounds)

Isolation Unit: 29 pounds (maximum)

Recorder electronics: 30 pounds

Rack-mounted: 250 pounds (typical)

Cabinet-mounted: 500 pounds (typical)

AMBIENT TEMPERATURE

0 °C to +50 °C

RELATIVE HUMIDITY

5% to 90% relative humidity, non-condensing; optional cabinet heater with rear door vent for humidity control

WARRANTY

5 year system warranty. Peripherals are warranted separately

Specifications are subject to change without notice