

# Reason DR60 PMU

## Digital Recorder and Synchrophasor Measurement Unit

The Reason DR60 is a centralized one-box multifunctional digital fault recorder (DFR) and PMU C37.118. The small form factor, together with the ruggedness of design drawn from field experience in yard-mounted applications, ensures that the Reason DR60 can be installed in harsh utility and industrial environments. The high scalability in binary I/O counts along with modern communications such as IEC61850 Edition 2 and synchronization protocols such as MMS, GOOSE and PTP precision-timing, place the DR60 at the forefront of digital recording and PMU technology.

### Phasor Measurement Unit (PMU)

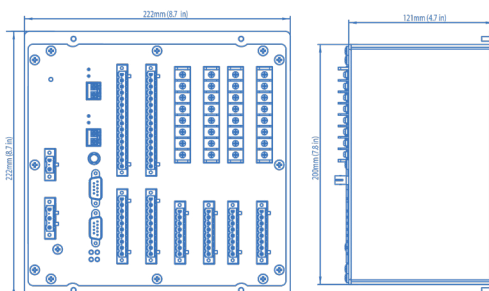
The DR60 provides powerful and cost-effective synchrophasor measurement solution according to IEEE C37.118.1/2-2011/1a-2014 standards and is capable of transmitting synchrophasors in up to 4 separate data streams. Each stream can be configurable independently based on: contents; frame rate; performance class (P or M) and communication mode (TCP or UDP).

### PMU Specification

Number of simultaneous PMU streams	4
Performance Class	P and M
Communication Protocol C37.118.2	UDP or TCP
Communication mode	Commanded and spontaneous
PMU data	Voltage and current synchrophasors; frequency, rate of change of frequency and sequence components
Ethernet interfaces	2 RJ45 or 2 LC connector
VT inputs	115 V nominal; up to 16 inputs
CT inputs	1 or 5 A nominal; up to 16 inputs

### Dimensions of the equipment

Height	222 mm / 8.7 in (5 U)
Width	222 mm / 8.7 in (½ 19")
Depth	121 mm / 4.7 in
Weight	< 3.5 kg (< 7.72 lb)



## Optimized Outcome

- Helps to improve dynamic monitoring based on synchronized measurement
- Mitigate risk of major disturbances caused by dynamic conditions
- Accelerate resynchronization operation, leading to decreased down-time

## Complete digital recorder

- In addition to PMU capability the DR60 offers a full set of digital recorders: waveform, disturbance, trend and SOE

## High Density I/O

- Up to 32 analog inputs and 4 independent PMU streams

## Communication

- Supports modern industry protocols, such as: DNP3, MMS, GOOSE, PTP and IRIGB
- Serial and Ethernet interfaces



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