

DOBLE PROTECTION TESTING

F8 COMMAND MODULE

Instrument control, communication, and synchronization



F8 Command Module Technical Data

Communications	SFP	Ports 1 & 2 Copper/fiber selectable 1 Gbps each
	Ethernet	Ports 3, 4 & 5 Port 5 PoE at 40 W (57 V) 10/100/1000 Mbps each
	USB	1 x 3.0 Type C
Time Synchronization	PPS	NTP GNSS (Global Navigation Satellite Systems): GPS, QZSS, GLONASS, BeiDou
	IRIG-B	Modulated B120 Unmodulated B000
	PTP	1588 v.2 as Grandmaster or subscriber IEC 61850-9-3 Power Profile and Power Utility Profile as subscriber only
	SNTP	IP v.4 and IP v.6 Networks
IEC 61850	Performance	Type 1A Class P2/3 (IEC 61850-5)
	Certifications	IEC 61850 Edition 2 with Amendment 1 Parts 6, 7-1, 7-2, 7-3, 7-4, 8-1, 9-2, and IEC 61869 First Edition Part 9 Conformance Blocks: 9a: GOOSE publish 11a: Sampled Values publish 9b: GOOSE subscribe 13a: Time Sync SNTP 13b: Time Sync PTP Certificates available upon request.
	VLAN Support	Selectable priority and VLAN-ID
	Publishing - Sampled Values	IEC 61850 9-2 Amendment 1 (includes IEC 61869-9 and 9-2 LE profiles) 12 streams 64 sources* *The maximum of 12 streams cannot contain more than the maximum of 64 total available sources. Apply sources in your test cases in consideration of the following: <ul style="list-style-type: none">• For 61869-9, maximum of 24 sources per stream.• For 9-2 LE, fixed quantity of 8 sources per stream.• I/O expends only one source regardless of quantity of analog and/or digital I/O signals.
	Publishing - GOOSE / R-GOOSE	> 1024 configurable virtual outputs (128 messages)
	Subscribing - GOOSE / R-GOOSE	1024 configurable virtual inputs
	Future Use	1 x USB 3.0 Type A 1 x EXP Port
	Display	Diagnostics at boot up
	Weight	2.25 lbs. (1.02 kg)

