



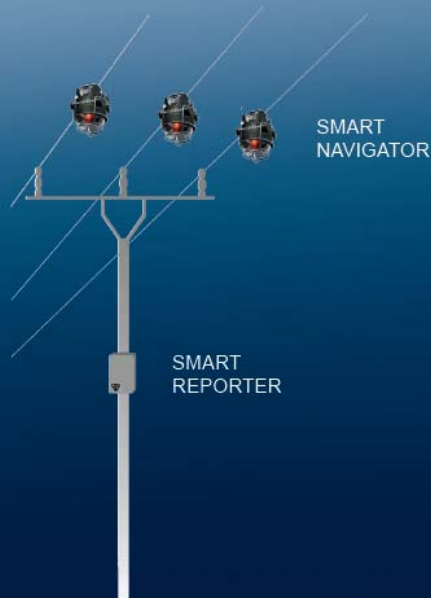
Overhead Fault Indication and Monitoring SMART REPORTER

SMART REPORTER Features

- SMART RECEIVER DNP3/2.0
 - Controls up to 12 SMART NAVIGATOR FCIs
 - DNP3 outstation Level 2+ (IP or Serial)
 - Local and remote configuration
- Wide range AC power supply
- Rechargeable backup battery
- SMART PMU: Intelligent power management unit (option)
 - Advanced charger with rechargeable battery supervision
 - Power-down modes of connected load for extended battery life
- Mounting space for selected modem/router/gateway
- Tamper detection
- IP66 / NEMA 4X rated enclosure, mounting brackets, lockable



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FCI Information (DNP3 data)

Alarms / Events:

- Overhead line fault Indication (permanent / momentary)
- Fault current magnitude
- Overhead line de-energization (loss of current)

Continuous reports:

- Average load current
- Peak load current (min & max)
- Counters: permanent faults / temporary faults
- Device temperature, conductor temperature (option)
- Routine call and health check
- Battery status



The SMART REPORTER is a robust, pole mounted solution that works together with the Horstmann line of SMART NAVIGATOR overhead line faulted circuit indicators. Together they provide detailed information about fault events, fault locations and load data for distribution and sub-transmission overhead lines.

The SMART REPORTER acts as an access point that relays information from the SMART NAVIGATORS through different WAN environments like Cellular, Licensed / Unlicensed Radio, etc. into SCADA or Network Management Systems. The SMART REPORTER can monitor and manage up to 12 SMART NAVIGATORS. Together the solution forms a DNP3 Level 2+ compliant outstation.

The SMART REPORTER contains the SMART RECEIVER DNP3/2.0 that receives and manages data of the Overhead Line Faulted Circuit Indicators and that provides the information in a DNP3 compliant format. The SMART REPORTER includes as option an intelligent power management unit (SMART PMU) that monitors power supply and back-up battery status and enables selective power-down modes. The SMART REPORTER can be fitted with selected 3rd party modems/routers or gateways to enable different WAN connections.

FCI communication	
FCI radio	Short Range Radio Link Controller for up to 12 NAVIGATOR FCI's
Frequency / modulation / Tx power	2.4 GHz / MSK / 0 dBm
Range FCI ↔ SMART REPORTER	100 feet (line-of-sight)
AC Power Supply	
AC supply	85 – 264 V AC / 47 - 63 Hz / 120 - 370 V DC
Power consumption	0.9 A @ 115 V / 0.5 A @ 230 V (fused: 2A T)
Surge protection (Hot line to ground)	Rated / maximum voltage: 230 / 275 V AC, current (8/20 us): 40 kA
Back-up battery	
Battery type	12 V / 7.2 Ah, SLA (sealed lead acid), rechargeable
Battery back-up time	>24 hours
Service life	10 years at 20°C
Selected router / gateway options	
Cellular	Sierra Wireless Raven XE Option: 2.5G / 3G Cellular; CDMA on request
Others	On request
Antenna	
	GSM/3G Low Profile Puck Antenna
Interfaces	
	2 Serial Ports (RJ45, RS232) Ethernet RJ45 10/100 Port for DNP3 IP or local access and configuration Mini-USB for local access and configuration
Features	
	Door contact switch (mapped in DNP3) for tamper detection MicroSD card slot for system and DNP3 logging Internal LEDs to support installation and commissioning Optional internal heater for operation under extreme climate conditions
Environmental	
Operating temperature	-30°C - +70°C
Humidity	0 to 95% non-condensing
Radiated emissions	FCC Part 15
EMC	EN61000-4
Enclosure	
Casing material	Fully insulated, fibre-glass reinforced polyester
Degree of protection	NEMA4(X), IP66
Dimensions (H x W x D) approx.	350 x 250 x 160 mm
Weight approx.	8.5 kg

Article	Order No.
SMART REPORTER	28-3001-xxx