



T-NG-EN54 KIT

Certified IP fire alarm transmission



Security, reliability and certification are the 3 key requirements when one talks about fire alarm transmission. The IRIS T-NG-EN54 KIT addresses all of these and provides a "turn key" solution for the transmission of fire alarms over IP.

Based on the established and renounced IRIS technology, tested and verified by the reputed VDS laboratories resulted in the 0786-CPR-21445 certification allowing for both type 1 and type 2 installations.

The dual-path IRIS 440NG uses IP as it's main transmission path with 4G as backup and provides as interfaces to fire alarm panels:

- 16 PIN inputs
- RS232 support for ESPA protocol with conversion to SIA
- RS232 support for Honeywell Notifier, HHL and Panasonic panels

An IRIS T-NG-EN54 kit comprises:

- IRIS Touch 440NG-4G terminal
- IRIS EXT 12 pins extension board
- STX2402C power supply
- Metal enclosure
- External antenna



www.chironsc.com

IRIS Touch 440NG-4G features				
Touch screen	0			
Ethernet port				
4G LTE with auto 3G or 2G fallback				
Dialport capture	0			
Relays	4			
PIN inputs	4 standard + 12 additional with EXT-1 or EXT-2 extension board			
Serial RS485	0			
Serial TTL	0			
RS232 (Basic or Full)	1 Full or 2 Basic selectable			
CAN bus	0			
SMS text messaging	0			
Multi language programming menu	0			
Build-in VoIP and SIP services	0			
Power Supply				
Supply voltage	9 - 28V DC			
Quiescent current (12V)	151 mA			
Relays				
Relay outputs - max operating voltage	24V DC			
Relay outputs - max operating current rating	100 mA DC			
Alarm Transmission				
Interface to Alarm Receiving Centre (ARC)	IRIS Secure Apps			
Dialport capture interface	Two wire interface via RJ45 socket or terminal screw block			
	Input voltage range OV - 12V DC			
Pin inputs	"Low" (Alarm state) threshold <1V			
P	"High" (Restore state) threshold >2V			
	Internal pull-up 10K tot 3.3V supply			
	SIA (Levels 0 to 3)			
	Contact ID			
Alarm protocols				
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	IP transmission path - 26/36/46 transmission path			
Fault detection reporting to ARC	IP transmission path - 2G/3G/4G transmission path			
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Specifications STX2401-C		EN54-4 certified 24V 2A + 0.7A intelligent power supply				
Rated voltage		110-240 V ac				
Operational voltage		90 - 264 V ac				
Frequency			50 Hz			
Input current		<1.0 Amps at full load				
Inrush current			54 mat at 25°C 110 V ac for 10ms			
Fuse		T1.6 A 20mm 250 V ac HRC				
Output						
Voltage at full load						
Mains power		27 0-28 3 V dc (27 6 V nominal)				
Battery power	ttery power		20.3-26 V dc			
Pipplo						
Fuse load						
		F2.5 A				
		F2.5 A				
Battery mode selected						
Continuous output current			2.5.1			
No charging (lmax B)		2.5 A				
Charging (lmax A)		2.0 A				
Battery capacity		2 x 7.0 Ah 12 V				
Constant current charge		0.3 A				
Low battery threshold voltage		23V				
Deep discharge protection		Treshold voltage 21 V				
Quiescent current (no load)		<30 mA @ 27.6 V				
Quiescent current (battery cut off)			<1 mA @ 27.6 V			
Mechanical						
Enclosure dimensions		275 x 330 x 80 mm				
Weight (excluding batteries & T440NG-4G)		3.3 Kg				
Material		1.2 mm steel white powder coated				
Environmental						
Operating temperature range		-10° to +40° 75 % RH non-condensing				
Storage temperature range		-20° to 80°				
Connections & signalling outputs						
Load output +/-		Screw terminals Voltage output to load				
GEN PSU fault (normally closed contact)		0.10A @ 60V dc 16Ω solid state relay contacts, volt free				
		Open if Mains failed and battery voltage <23 volts or fault PSU fault confition				
EPS Fault (normally closed contact)		0.10A $@$ 60V dc 16 solid state relay contacts, volt free Open if loss of Mains >10 seconds				
Temperature sensor		Thermistor input from supplied battery terminal thermistor				
BATT +/-		Connection to back-up battery using supplied battery lead				
Optional serial interface		5 pin header	leader			
LED indication						
Yellow LED		Fault indicator (See fault diagnostic table in manual)				
Green I ED		Mains supply present indicator				
		Diagnostic indicator				
Signalling & Diagnostics						
EPS Fault	GEN Fault	Condition	Possible cause	Action		
Closed	Closed	Normal operation	Battery healthy	NUTE		
Open	Closed	Standby mode	Mains lost Battery driven load	Investigate loss of Mains		
Closed	Open	Fault present	Blown fuses Battery fault Internal fault	Use LED diagnostic for investigation and rectify		
Open	OPen	PSU shut down	Mains lost Standby battery exhausted	Restore Mains ASAP		

