

ekho

SELF-CONFIGURING MESH NETWORK EXPLAINED

The Ekho Expander modules create a self-configuring mesh network, which constantly relays field device signals back to the Translator module.

- ▶ Each wireless device determines which Expander has the strongest signal path and automatically connects to it
- ▶ The Expander mesh network guarantees an “always on” connection between the wireless devices and the Translator/fire control panel.

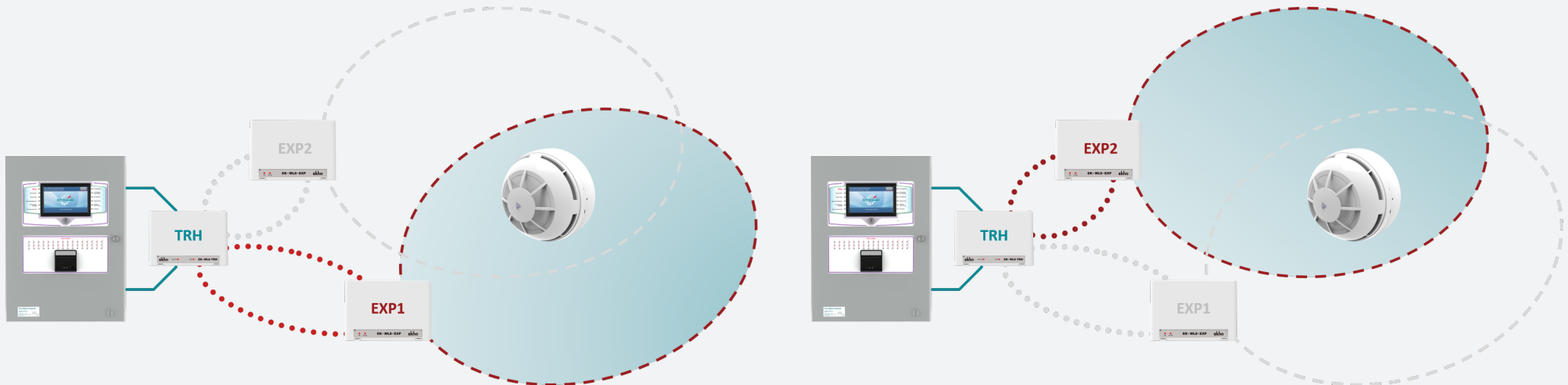
Self-healing mesh technology provides

- ▶ High level of reliability
- ▶ Automatically adapting to changing operating conditions: all devices automatically choose a parent expander depending on the quality of connection
- ▶ A simple design and commissioning process

Advantages for installers

- ▶ Simplified design and planning process
- ▶ Faster commissioning process
- ▶ Less time on site.

The Ekho system can be designed, programmed and commissioned from the free “Ekho Configurator” software before visiting the site, saving on installation time.



In this example, the Ekho sensor is connected to the Translator via Expander 1, as it is the strongest signal pathway.

If the signal to Expander 1 is compromised, the sensor automatically finds and connects to an Expander with the next strongest signal pathway, in this example, Expander 2.

OVERVIEW

Hochiki is a wholly independent, multinational, publicly listed group of companies with over 2000 employees working across six manufacturing plants, 38 sales offices and 14 subsidiaries. One of the world's leading manufacturers of commercial and industrial fire detection and emergency lighting solutions, Hochiki has acquired global acceptance as the benchmark for high-integrity and long-term reliability.

Hochiki's facilities in Japan, the United States of America and Europe design and manufacture products and provide technical support suited to local standards and customer requirements. Total commitment to meeting the needs of individual national markets has reinforced the company's global reputation, resulting in Hochiki products being installed in many prestigious sites and in over 80 countries worldwide.

Hochiki's Ekho Hybrid Wireless range has been installed in a number of major projects around Europe and Russia, the following pages are just some cases where Ekho is installed.

EKHO - A NEW GENERATION OF HYBRID WIRELESS FIRE DETECTION

Ekho is a wireless based family of products which can be fully integrated into Hochiki's renowned ESP intelligent hardwired system. At the core of the system is the wireless Translator module. It is hard-wired to the fire alarm control panel loop and communicates continuously with the wireless devices. Wireless Expander modules are used to extend the radio mesh network, increasing the reach and capacity of the overall system. Ekho is the next generation of hybrid wireless fire detection from Hochiki and supersedes the FIREwave system in a number of ways:

PROJECT CLIENT	LOCATION	NUMBER OF SENSORS (IF KNOWN)
COVID-19 Hospitals	Podolsk, Mashtakova St, 4	1600
COVID-19 Hospitals	Smolensk, Frunze St, 35	900
COVID-19 Hospitals	Kaliningrad, Herzen St, 2	1200
COVID-19 Hospitals	Rostov-On-Don, Dachnaya St, 10	1400
COVID-19 Hospitals	Sevastopol, Chelnokova St, 8	900
COVID-19 Hospitals	Novosibirsk, Voinskaya St, 1	1400
COVID-19 Hospitals	Omsk, Gusarova St, 4	1200
COVID-19 Hospitals	Pushkin, Radishcheva St, 26	900
COVID-19 Hospitals	Odintsovo, Marshal Biryuzova St, 1	1200
COVID-19 Hospitals	Nizhny Novgorod, Izhora St, 25	900
COVID-19 Hospitals	Orenburg, Hospital Lane, 3	900
COVID-19 Hospitals	Sosnovy Bor (Ulan-Ude), Marshal Zhukov St, 50	900
COVID-19 Hospitals	Petropavlovsk-Kamchatsky, Ammonal'naya Pad St, 5	900
COVID-19 Hospitals	Anastasevka (Khabarovsk), International St, 25	1600
COVID-19 Hospitals	Volgograd, Marshal Zhukov Ave, 81	1200
COVID-19 Hospitals	Ussuriysk, Karbysheva, 7	900
COVID-19 Hospitals	Voronezh, Rostovskaya St, 90b	1600
COVID-19 Hospitals	Moscow, Golokhvastovo Village, 10th Block Of The Voronovskoye Settlement	10000

PROJECT CLIENT	LOCATION	NUMBER OF SENSORS (IF KNOWN)
Military Medical Academy	St Petersburg, Academician Lebedev street lit. F	20000
Sennaya Shopping Mall	St Petersburg, Yefimova st, 3	5000
Kindergartens in Moscow	150 locations in Moscow	On average 700 devices per building
Apartment Complex Lyuberetsky	Moscow Oblast, Lyubertsy, Gogol Street	6000
Vnukovo Air Traffic Control Center	Vnukovo, Moscow Oblast	1000
Research Station Vostok	South Pole	100
Infectious Disease Hospital in the Voronovskoye settlement in Moscow	-	-
Tretyakov Gallery	-	-
Uralmashzavod Factory	-	-
The Pushkin Museum	-	-
Apartment complex "Academichesky"	-	-
Sberbank bank (southern branches)	-	-
Ski resort "Solnechnaya Dolina", Chelyabinsk region	-	-
Moscow Kremlin Museums	-	-
The Hermitage	-	-

Project List Key:

- Carehomes
- Commercial
- Education

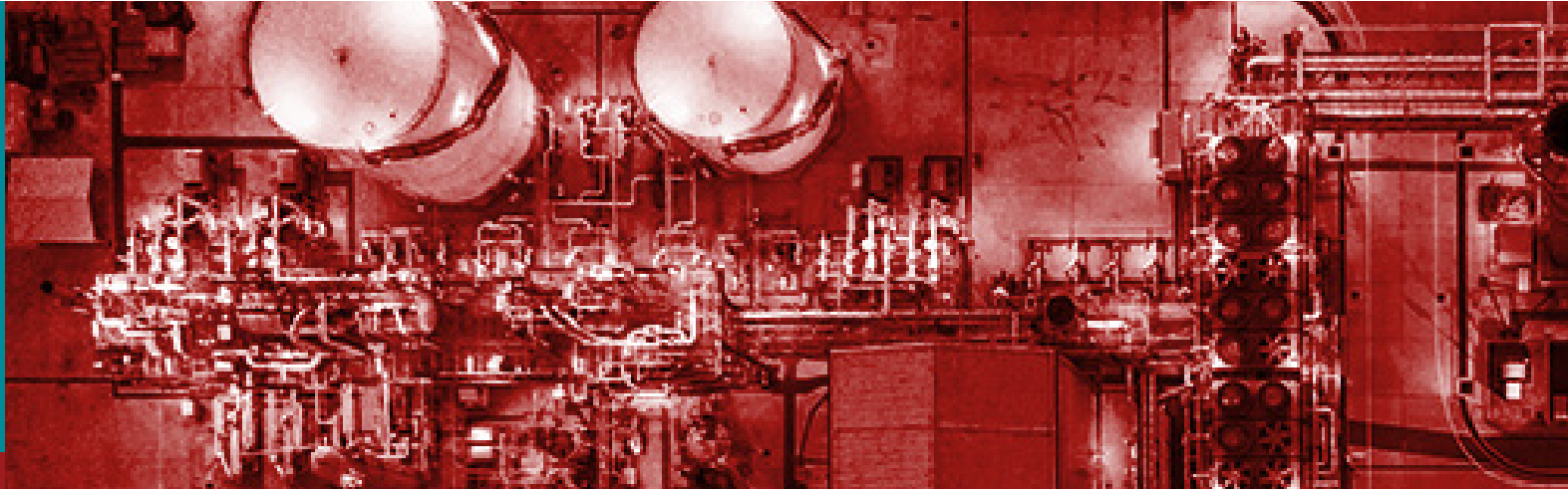
- Government
- Healthcare
- Heritage
- Industrial

- Residential and Leisure
- Marine
- Retail
- Transport

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