

2010

# Wireless Fire Detection

CERTIFICATON  
EN 54 -25

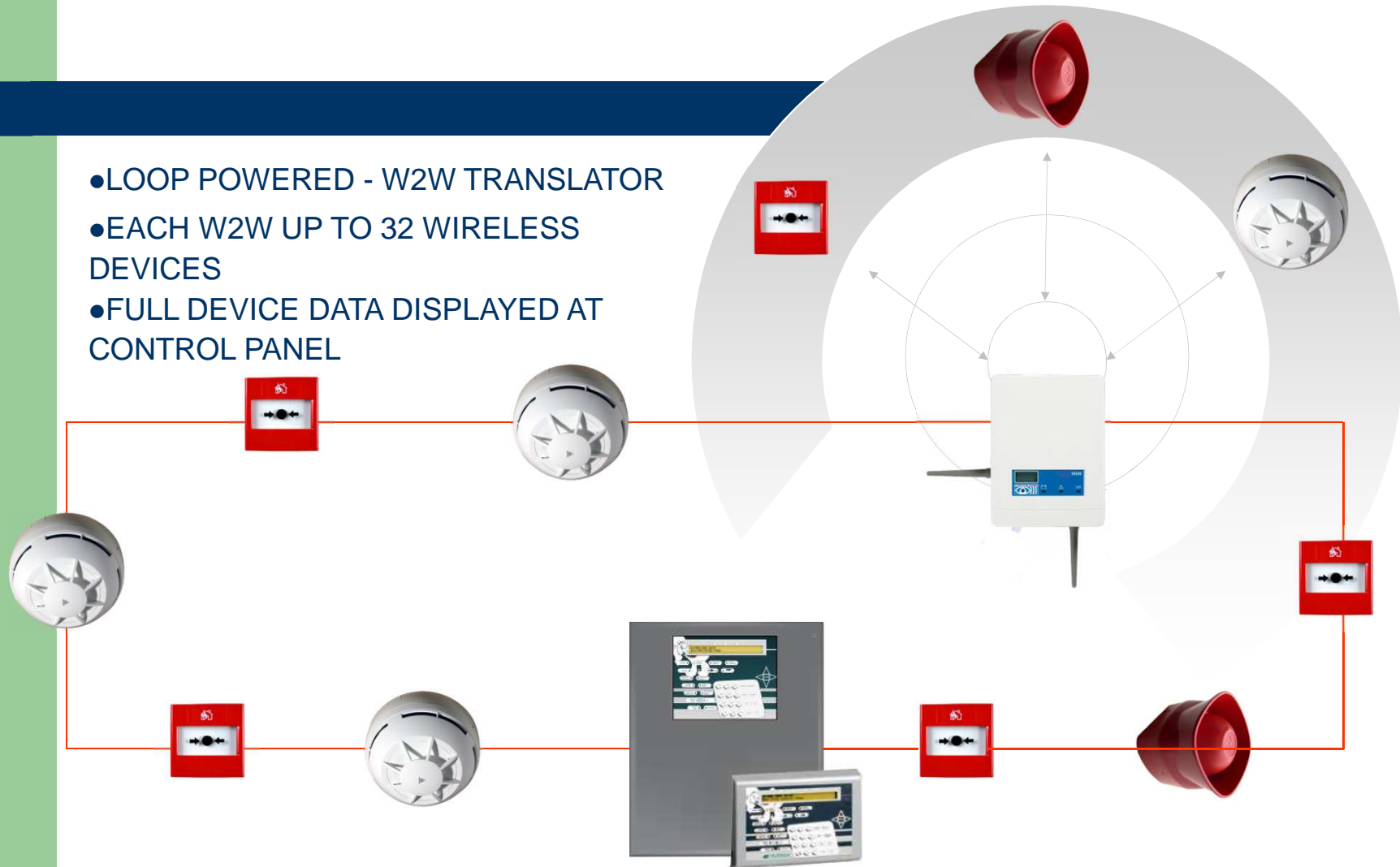




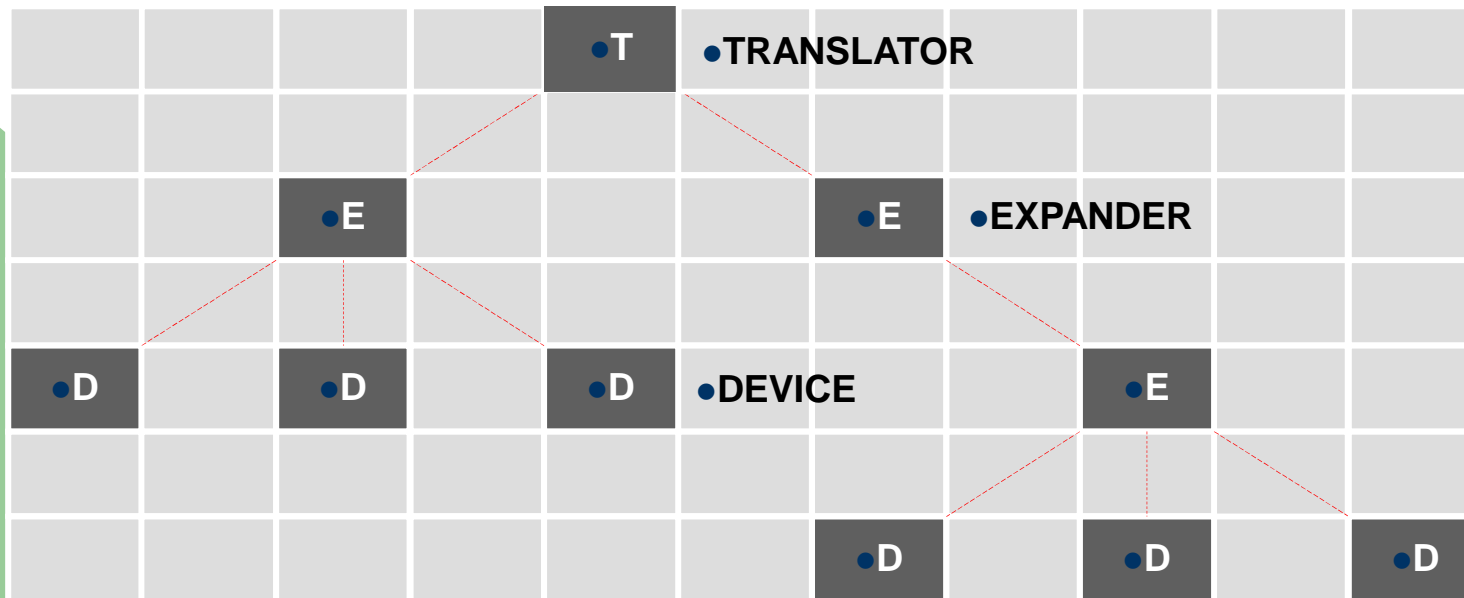
- ADVANCED WIRE TO WIRELESS SYSTEM OFFERS A COMPREHENSIVE SOLUTION FOR FIRE AND SECURITY SYSTEMS.

- FOR APPLICATIONS WHERE TRADITIONAL WIRED INSTALLATIONS MAY BE UNACCEPTABLE OR UNECONOMIC.

- LOOP POWERED - W2W TRANSLATOR
- EACH W2W UP TO 32 WIRELESS DEVICES
- FULL DEVICE DATA DISPLAYED AT CONTROL PANEL



- SYSTEM EXPANSION THROUGH
- POWERFUL 'MICROCELL' STRUCTURE



- Provides for a powerful 'microcell' structure with a capacity of up to 7 expanders.
  - Each cell can contain up to 32 wireless devices.



- HIGHLY SECURE & RELIABLE
- TRANSMISSION

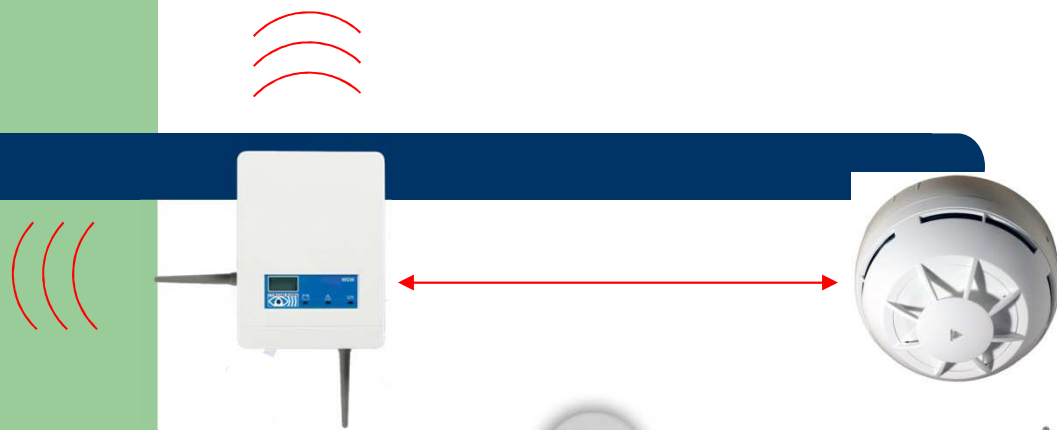
868 Mhz FREQUENCY – 7 TRANSMISSION CHANNELS



AUTOMATIC FREQUENCY HOPPING  
TO OPTIMISE SIGNAL STRENGTH

BI-DIRECTION COMMUNICATION

DOUBLE ORTOGONAL ANTENNA



## • Wireless Interface

- Orthogonal antenna to determine the best signal polarisation
- 868Mhz frequency – 7 transmission channels



- Every communication receives a return message – no lost messages
- Automatic frequency hopping
- Automatic power management
- Automatic control of signal level for every communication

- Fast and Reliable

- anti-collision software – ‘listen before talk’ (recommended by new European regulations for all new wireless protocols)
- receives periodic non critical status messages but immediate transmission of ‘alarm’ ‘fault’ ‘tamper’



- High Level of Security

- unique system code for each translator
- protocol is data encrypted
- parity checking ensures secure verification of every message

## •Wireless distances

- Expander to expander module '600M'
- Expander module to device '200M'



## •Devices

- Detectors are real intelligent devices – real analogue values at control panel
- Primary battery '5 years' secondary cell '2 months'
- Low battery alarm at control panel and built in tamper



## Devices

- Central bi-colour LED providing 360° visibility
- Double dust trap chamber design



- Magnetic test facility
- Continual development of wireless accessories
- 3 year warranty on all products

## HIGH RELIABILITY AND RAPID INSTALLATION



●SWF2000/ THERMAL DETECTOR



●SWF1000 OPTICAL DETECTOR



●SWF3500 THERMAL DETECTOR



●BATTERY POWERED OUTPUT MODULE



●FDWVM1100 INPUT MODULE



●FDWCO100 OUTPUT MODULE  
●(requires separate power supply)

## EXPANDING RANGE OF SIGNALLING DEVICES



FDSGLSP100 SOUNDER



FDSGLSP100S / BEACON



BEACON



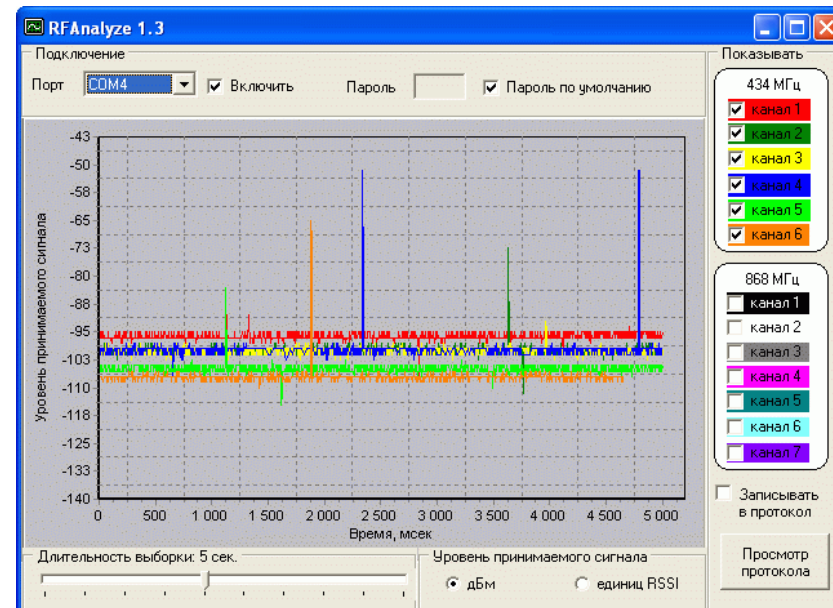
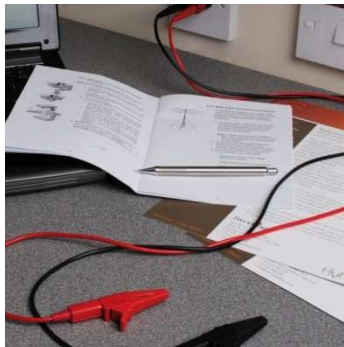
FDWCP100 CALL POINT



LOUDSPEAKER

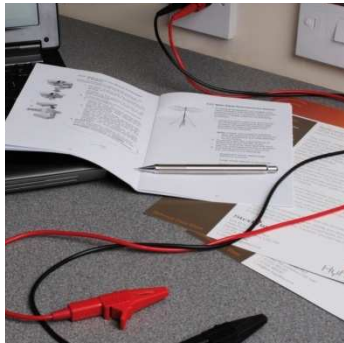
3 YEAR WARRANTY ON ALL PRODUCTS

## SOFTWARE TOOLS

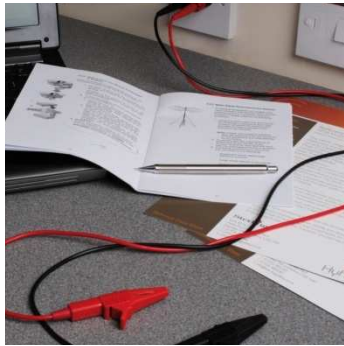


## SOFTWARE TOOLS

### ● Communication Signal Analyser



# SOFTWARE TOOLS



WireEx-Int, вер. 1.6 - TestSystemC.sts

Файл | Установки | Инструменты | Помощь

События | Конфигурирование | Состояние | **Качество связи**

Расширители

Устройство		Дочерние устройства		Качество, RSSI	Качество,...	Оценка	Примечания	Дополнительно	Связь
ИР/РРОП 0	РРОП 1	1.0.0.0.0	24/0	36 db	5				0"
	РРОП 1	2.0.0.0.0	40/0	60 db	5				8"
	РРОП 2								
	РРОП 3	РБУ	1	0/0	-	-			0"
	РРОП 4	РИГ	2	25/0	39 db	5	Шкаф у Личн слева		4"
	РРОП 5	РИГ	3	24/0	36 db	5	Шкаф у Личн справа		8"
	РРОП 5	Аврора-Р	4	21/0	32 db	5	Шкаф у В.А.	Дане-35, Тепло-83 (23.7 °C)	8"
	РРОП 6	Икар-Р	6	27/0	41 db	5	Шкаф у Лобы	Дане-33, Тепло-0 (0.0 °C)	36"
	РРОП 6	Икар-Р	7	25/0	39 db	5	Шкаф у В.А.		8"
		РИГ	8	21/0	32 db	5	Шкаф у В.А.		8"
		РИГ	9	12/0	18 db	3	Шкаф у Ванн		32"
		РБУ	10	0/0	-	-			0"
		Аврора-Р	11	19/0	29 db	4	Шкаф у Ванн	Дане-34, Тепло-66 (24.8 °C)	32"
		Аврора-Р	12	24/0	36 db	5	Шкаф у Личн слева	Дане-44, Тепло-82 (23.3 °C)	8"
		РБУ	13	18/0	27 db	4			0"
		Икар-Р	14	28/0	42 db	5	Шкаф у Ванн		20"
		Икар-Р	15	23/0	35 db	5	Шкаф у капустника		28"
		РБУ	16	0/0	-	-			0"
		Аврора-Р	17	27/0	41 db	5	Шкаф у капустника	Дане-41, Тепло-84 (24.1 °C)	0"
		Аврора-Р	18	24/0	36 db	5	Шкаф у капустника	Дане-38, Тепло-84 (24.1 °C)	32"
		Икар-Р	19	26/0	39 db	5	Шкаф у входа		24"
		Аврора-Р	20	30/0	45 db	5	Комната 405	Дане-30, Тепло-84 (24.1 °C)	16"
		Аврора-Р	21	24/0	36 db	5	Комната 405	Дане-28, Тепло-84 (24.1 °C)	0"
		Аврора-Р	22	13/0	20 db	3	Комната 404	Дане-36, Тепло-87 (25.2 °C)	8"
		Аврора-Р	23	15/0	23 db	4	Комната 404	Дане-40, Тепло-85 (24.4 °C)	20"
		Аврора-Р	24	14/0	21 db	4	Потолок в коридоре	Дане-42, Тепло-81 (23.0 °C)	8"
		Аврора-Р	25	13/0	20 db	3	Потолок в коридоре	Дане-41, Тепло-81 (23.0 °C)	4"
		Аврора-Р	26	26/0	39 db	5	Комната Лобы	Дане-40, Тепло-80 (22.6 °C)	24"
		Аврора-Р	27	20/0	30 db	5	Комната Лобы	Дане-37, Тепло-80 (22.6 °C)	8"
		Аврора-Р	28	22/0	33 db	5	Комната Лобы	Дане-44, Тепло-80 (22.6 °C)	12"
		Аврора-Р	29	26/0	39 db	5	Комната Лобы	Дане-40, Тепло-81 (23.0 °C)	16"
		Икар-Р	30	26/0	39 db	5	Шкаф у В.А.		32"
		Икар-Р	31	23/0	35 db	5	Данн стол		32"
		Икар-Р	32	40/0	60 db	5	Ванн стол		0"
		РИГ	33	23/0	35 db	5	Входная дверь		36"
		РИГ	34	18/0	27 db	4	Дверь у Лобы		32"
		ИЕ-Р	35	19/0	29 db	4			4"

Уровень, RSSI

Текущий - 15  
 Средний - 17  
 Трафик - 11.2%  
 Ср. траф. - 15%

Упр. мощн: +  
 Отпр. урчнел: +

## SURVEY TOOLS



**Survey Test Kit**

The wireless test kit allows an accurate survey of the project to be made prior to installation.

This is essential to ensure the correct placement of devices and to maximise the transmission signal.

The equipment comprises:

- wireless expander
- wireless key-pad
- modified optical detector
- extension poles and adaptor
- cables and connectors

FAST, SIMPLE & ECONOMIC



SECURE DETECTOR BASE TO CEILING

INSTALLATION MADE EASY. NO EXPENSIVE  
LABOUR OR CABLING!

SIGNIFICANT COST SAVINGS OVER  
TRADITIONAL HARD WIRED SYSTEMS!

ATTACH DETECTOR TO BASE

INSTALLATION COMPLETE ✓



1



2

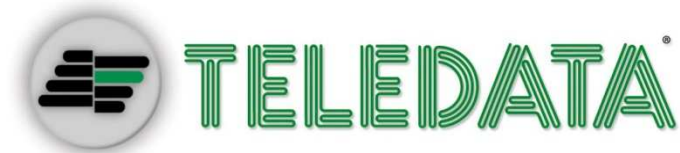


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## SUMMARY

- Wire to wireless
- Highly secure and reliable transmission
- Full device range
- Low cost standard batteries
- Bi directional communication
- Fully integrated
- Cost effective
- Fast installation
- Low visual impact (DecorLine)





# DECORLINE

LOW VISUAL IMPACT SOLUTIONS FOR FIRE DETECTION SYSTEMS

# DECORLINE

•14 STANDARD FINISHES

•WOOD

• ASH



DURMAST



CHERRY



ALTER



BRIAR ROOT



•MARBLE

•CARRARA



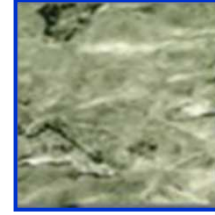
OBIRHO



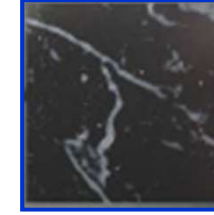
GREEN ALPES



GREEN

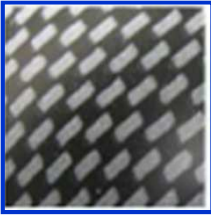


BLACK



•PATTERNS

•CARBON FIBER



•GOLD FIBER



GOLD



ALUMINIUM



•METALS

DECORLINE

+

WIRELESS



Where hard wired systems are not an option and detectors must not be seen

Sagittarius wireless detectors with DECORLINE finish

provides rapid and reliable fire detection with extremely low visual impact.