

# RADIO SYSTEMS

Leading the way in security

# Scantronic



## WHEN LIFE DEPENDS ON THE PUSH OF A BUTTON

You would expect a radio based alarm system to be capable of sending a signal from one point to another.

The principle is simple enough, but is it possible to make the same unit perform to the same high standard every time, year after year? This kind of repeatability demands the highest quality manufacture.

Scantronic operates at the leading edge of radio technology and offers unrivalled capability.

## IT'S OUR QUALITY OF MANUFACTURE THAT MAKES MORE PEOPLE PUT THEIR TRUST IN SCANTRONIC

### QUALITY THROUGH TECHNOLOGY

Scantronic provides a wide range of transmitters and receivers which are easily combined to meet your specific needs.

All products are manufactured using leading edge semiconductor and microprocessor technologies with strict assembly and quality control procedures to ensure reliability.

Inside every receiver and transmitter we make, you can see the difference, the clean and uncluttered circuitry clearly demonstrates our dedication to the best electronics design.

Added to this, you have the full assurance that Scantronic radio equipment is tested and approved to all European national radio regulations.

### HIGHEST PERFORMANCE STANDARDS

All our radio systems operate on FM narrow band. All our transmitters and receivers are controlled with a dual conversion superhet, featuring crystal and mechanical filters.



The result is a highly selective radio system which ignores unwanted signals and decodes more reliably than any competitive system.

In addition, Scantronic uses sealed long life Lithium Thionyl Chloride power cells – better for both the performance of the system and for the environment.

No other manufacturer delivers this unique combination of advanced technology.

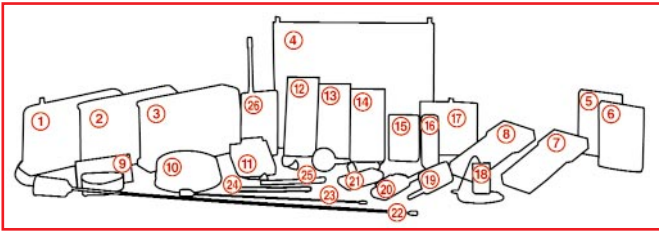
### A RANGE OF APPLICATIONS

With Scantronic, you do not have to make do with a system that is merely close to your requirements. Our extensive radio equipment range covers everything you'll ever need.

This includes such diverse applications as protecting mobile security guards (a transmitter which detects a fall to the ground), industrial control (a system to monitor industrial machinery) and commercial security (a radio system capable of protecting every picture in a museum).

From factories and industrial sites to medical and security applications, Scantronic radio systems have a record second to none.





## RECEIVERS

- 1** 4618-50/60 8 channel receiver. 12V d.c. 240 a.c.
- 2** 4619-60 8 extension panel for 4618-50 or 60.
- 3** 4600 Domestic alarm control panel with 8 fully programmable zones. Compatible with a wide range of 4600 transmitters.
- 4** 4660 Multiscan receiver. 512 channel unit which is operated and monitored by up to 7 remote displays. All messages displayed in plain text. RS232 outputs for printer, computer and paging systems.
- 5** 4612 2 channel wirefree receiver.
- 6** 4603 Programmable transmitter in LIM box, 10 programmable modes 1, 2 or 4 channels.
- 7** 4661 Multiscan master terminal.
- 8** 4662 Multiscan operator terminal.
- 9** 4618 EUR-55 Relay Board for 4618 and 4619 receivers.

## TRANSMITTER

- 10** 4609 Smoke detector transmitter.
- 11** 4670-20 Ceiling mounted emergency transmitter pull cord activator.
- 12** 4670-01 Wall mounted emergency transmitter with pull cord activator.
- 13** 4670-02 Wall mounted emergency transmitter with air bulb activator.
- 14** 4670-00 Wall mounted emergency transmitter with pear push activator.
- 15** 4608 Passive infrared movement detector.
- 16** 4604 Universal transmitter. Signals the opening of a contact circuit via an integral reed switch, or any normally external closed contacts.
- 17** 4624-00 12V powered universal 4 channel, long range radio transmitter.
- 18** 4601-50/60 Pendant or brooch transmitter. For use in Nursecall, social alarm and security systems.
- 19** 4602-55 Two button push handheld PA transmitter.
- 20** 4606-55 Long range "emergency & tilt" transmitter.
- 21** 4605 Dual-channel transmitter. Functions as a dual action attack and remote setting transmitter with the 4600 panel or as a 2 channel transmitter with the other receivers.

## AERIALS

- 22** 4597 Base loaded half wave dipole.
- 23** 4594 Quarterwave whip.
- 24** 4599 90° Helical aerial.
- 25** 4598 Helical aerial.

## TEST METER

- 26** 4690 Radio test meter.



# SCANTRONIC RADIO SYSTEMS COVER IT ALL

## **Alarm re-transmission device**

Use the 4624 transmitter to collect the alarm output from detectors or remote control units and transmit them back to the control unit of the main building system. This can be very useful in areas where there are out buildings or remote garages. Each individual building can have full local control via its own control panel, but any alarm signals can be brought into the main security system.

## **Building development sites**

A 4600 or 4660 control panel can become the nerve centre for a whole new way of protecting building sites. Show-home protection is achieved by locating the control panel in the middle house, with 4608 movement transmitters in adjacent houses. Many developers have guarded that dangerous period between fitting out the new kitchen with expensive appliances and the new owner moving in by using a 4600 system. Fire protection to counter the unguarded forgotten blow-lamp is provided by 4609 smoke detectors. Even the everyday tools used by the building trade can be guarded out-of-hours by movement detectors fitted in their storage sheds. In short, the 4600 system can provide a level of protection that builders could not hope for even with expensive guards.

## **Door/barrier control**

Use the 4612/4618 receiver, 4601 pendant, 4602 hand-held or 4605 twin channel transmitter to remotely control electric doors, gate lifting barriers or lights. Particularly useful where it is difficult or expensive to run cables from a control point to the remote door, gate, barrier or lighting units.

## **Door indicator system**

Use the 4604 door contact transmitters, 4618 receiver and 4619 add-on expanders to provide up to 64 separate fire door status door indications.

## **Door status indicator units**

Use the 4604 transmitter connected to NC (normally-closed) magnetic contacts to transmit to a receiver whenever a door is opened or closed. Often used for monitoring fire exit doors in offices, factories or supermarkets where it would be difficult to run cables to the doors. The most practical, cost-saving way of monitoring doors or gates in remote buildings or in perimeter fences.

## **Elderly or handicapped person 'help' button**

Use the 4601 pendant with 4612/4618/4660 receivers or the Homelink emergency telephone to summon assistance. The 4612/4618 receivers can be connected to a variety of warning devices both audible and visual. The 4660 multi-channel receiver can be used to monitor a larger number of pendants and is suitable for use in retirement homes, hospitals or sheltered housing schemes. Homelink is a complete emergency telephone unit that simply plugs into an existing BT socket. The system can be used as a normal telephone with the additional advantages of three pre-programmed, rapid-dial numbers. When the emergency circuit is activated by either the 4601 pendant or a button on the front of the unit, a direct two-way speech facility is established with a central control room, bringing comfort and help to a person in trouble.

## **Emergency panic button**

Use a 4602 hand-held panic button with 4612/4618 receiver connected to a conventional burglar alarm control panel to provide a fully mobile panic button facility. Ideal for use in homes, garage forecourts, where cash is moved around or where you have guards left alone within industrial premises.

## **Emergency panic button system for schools**

Use a 4601 pendant or a 4602 hand-held panic button with a 4660 multi-channel receiver to protect teaching and ancillary staff from attack. Fit the 4660 in a constantly manned office where staff can quickly read the staff member's number and send help when required.

## **Farm monitoring**

Use the 4604/4624 transmitters in a variety of ways to provide farm managers with alarm and status indications from various parts of the farm without the need for costly and obtrusive wiring. Typical uses include temperature monitoring of poultry hatcheries and incubators, temperature monitoring of milk storage tanks, temperature monitoring

of grain silos, humidity monitoring of grain silos, level monitoring of milk tanks, level monitoring of slurry tanks, oxygen level monitoring in fish-farming tanks, 'door-open' monitoring of animal pens, incubators and barns, 'door-open' monitoring of farm machinery storage sheds, 'lone worker' protection for people working in slurry tanks and silos, intruder detection in buildings. 4612 two-channel, 4618 eight-channel and 4660 multi-channel receivers enable information from Scantronic 4604/4608/4624 transmitters to be displayed in any way that is most convenient for the farm concerned.

## **H/vac and plant monitors**

Use the 4624 transmitter connected to the standard monitor output contacts on heating, ventilating and air-conditioning plant so as to transmit any abnormal conditions to gatehouse or building managers.

## **Liquid level monitors**

Use the 4624 transmitter connected to standard, liquid level-switch to transmit out-of-level conditions to a receiver. Useful for monitoring levels in tanks, silos, reservoirs or pipes where there is power available to drive the 4624 transmitter.

## **'Lone-worker' protection system**

Use a 4601 pendant or a 4602 hand-held panic button with a 4612/4618 receiver to provide a means of summoning help if a 'lone-worker' should become ill or injured whilst working alone. A special version hand-held panic button (model no. 4606), has an extra safety feature built-in – a tilt switch is included and will automatically activate the transmitter should the wearer fall further than a nominal 45 degrees from the vertical for longer than twenty seconds. This is of particular importance to those people working in areas where there is a risk of falling or of being overcome by toxic fumes.

## **Marinas, truck park and caravan site protection**

4604 and 4624 transmitters can be connected to any existing alarm units fitted to boats, trucks or caravans. 4608 movement transmitters can be also fitted in many locations. The 4660 multi-channel receiver should be sited at a constantly manned point to receive the signals from any of the transmitters. Most trucks and caravans and many boats are of metal construction so you may have to use an external aerial to obtain good reception.

## **Movement detection system**

Use the 4608 passive infra-red movement detector transmitter wherever you want to detect the presence of an intruder inside a building. Use a 4624 transmitter connected to any proprietary external microwave, infra-red or beam detector to detect the presence of an intruder outside a building.

## **Process control**

Use a 4601 pendant or a 4602 hand-held or a 4605 two-channel transmitter with a 4612/4618 receiver to control plant or machinery. A hand-held 4602 transmitter can be used by supervisory staff to immediately stop a single or group of machines in the event of a problem and then re-start the same machines when the problem clears. All of this can be accomplished without having to actually go to the machine.

## **Temporary protection**

Scantronic radio systems offer exhibitors a level of protection never before possible on temporary sites. A 4600 system will provide high quality protection for temporary exhibitions, agriculture shows, show-homes, schools and a myriad of other applications. Use 4608 movement transmitters to protect the larger areas and 4604 contact transmitters to cover doors, cupboards and even show cases which can be connected to Radio viper/vibration sensors. Fire protection can be achieved by using strategically placed 4609 smoke detectors.

## **Static transmitters and receivers**

Used to transmit the status of normally-closed (NC) or normally-open (NO) circuits or the movement of people in a given area to remote receivers. Products include 4604 contact transmitters, 4624 four-channel transmitter, or 4608 passive infra-red movement detector transmitter to 4612/4618/4675 receivers.

# PRODUCT RANGE AND FEATURES

## TRANSMITTERS

Part no.	Description	POW	Codes	Ch.	Features	Size:hwxwd	Case	Range†	Receivers
4601-50	Pendant	LMD	4096	1	Single push button	58 x 40 x 16	ABS	900m	All
4601-60	Brooch transmitter	LMD	4096	1	Single push button	58 x 40 x 16	ABS	300m	All
4630 EUR	Clip for 4601/60	n/a	n/a	n/a	n/a	n/a	ABS	n/a	n/a
4602-55	Hand held transmitter	LTC	4096	1	Double action buttons	164 x 44 x 30	ABS	900m	All
4603-60	Programmable TX in LIM Box	LTC	4096	1, 2 or 4	10 different modes	145 x 105 x 25	PCB	750m#	Depends on mode
4604-55	Contact transmitter	LTC	1024	2	Int magnetic reed or NC circuit	130 x 32 x 23	ABS	200m	4600/12/18/19
4605-55	Dual-channel (A/B) Tx	LTC	1024	2	Buttons, 2 x side (A) top (B)	102 x 44 x 22	ABS	200m	4600/12/18/19
4606-55	Tilt switch transmitter	LTC	1024	2	chA manual, chB movement >45°	164 x 44 x 30	ABS	900m	4600/12/18/19
4608-00	PIR detector and Tx	ALK	1024	2	PIR detection, 12m range	105 x 70 x 50	ABS	200m	4600/12/18/19
4609-00	Smoke detector	ALK	4096	1	Optoelectronic detection	140 x 53 (D)	ABS	200m	All
4624-00	4ch high power Tx	12V DC	256	4	4 x NC or 2 x NC + 2 x NO circuits	136 x 142 x 33	ALU	>2km*#	4618/19/12
4670-00	Nursecall Tx	ALK	1024	2	Pear push button	190 x 79 x 37	ABS	200m	4660/12/18/19
4670-01	Nursecall Tx	ALK	1024	2	Pull cord activation	190 x 79 x 37	ABS	200m	4660/12/18/19
4670-02	Nursecall Tx	ALK	1024	2	Pneumatic bulb	214 x 79 x 37	ABS	200m	4660/12/18/19
4670-20	Ceiling pull cord Tx	ALK	4096	1	Pull cord	95 x 95 x 55	ABS	200m	All

## RECEIVERS

Part no.	Description	POW	Channels	Features	Size:hwxwd	Case
4600-00	8 zone control panel	230V AC	8 dual ch.	Keypad or remote control U/A4605	163 x 257 x 72	Polycarb
4612-50	2 channel receiver	12V DC	1 du./2sing.	Manual or CP reset	145 x 105 x 25	Polycarb
4618-50	8 channel receiver	12V DC	8 dual ch.	Manual or CP reset/optional relays	163 x 257 x 72	Polycarb
4618-60	8 channel receiver	230V AC	8 dual ch.	Manual or CP reset/optional relays	163 x 257 x 72	Polycarb
4618 EUR-50	8 channel expander	12V DC	8 dual ch.	Up to 3 x 4619 per 4618/50 or per 4618/60	163 x 257 x 72	Polycarb
4660-00	Multiscan receiver	230V AC	512 dual ch.	Mains/battery powered, outputs for printer/pager	400 x 330 x 110	Steel
4661 EUR-00	Multiscan master terminal	n/a	n/a	Full programming & operating keypad/LCD display	210 x 100 x 30	ABS
4662 EUR-00	Multiscan operator terminal	n/a	n/a	Operator acknowledge buttons	210 x 100 x 30	ABS
4690	Radio test meter	ALK	n/a	Radio test meter for above transmitters	n/a	n/a
4618 EUR-55	8 channel relay	n/a	n/a	Giving 8 separate outputs to 4618-50/60 + 4619 receivers	n/a	n/a

## AERIALS

Part no.	Description	Fitting	Range factor	Ext/int
4594-00	1/4 wave whip	BNC	1	Internal
4595-00	Yagi directional	10m cable BNC	2.5	External
4597-00	Base loaded 1/2 wave	10m cable BNC	1.5	External
4598-00	Helical	BNC	0.5	Internal
4599-00	90° Helical	90° BNC	0.5	Internal

- ALK = Alkaline 9V Size Mn 1064
- LMD = Lithium Manganese Dioxide 6V
- LTC = Lithium Thionyl Chloride 3.7V
- † = Typical value when transmitting to a 4618-50 receiver with a 1/2 wave dipole aerial, 2m from the ground.
- ★ = In 10mW mode
- # = Depending on aerial

Specification subject to change at any time.

Scantronic is a leading brand of Cooper Security Ltd, part of Cooper Industries, which employs over 28,000 people at more than 100 manufacturing sites around the world.

Scantronic manufactures security equipment for all types of commercial and domestic premises. The range is comprehensive, offering every type of solution from multizone hard-wired and wirefree systems, to digital and voice communicators, to detectors and social alarms. Installers trust us to deliver cost effective products with the highest quality of field and support services to ensure you receive the best and most reliable systems to secure you and your premises.

Dealer Details

SCAN 02/04