2 Function with Mini Transmitter

SYSTEM PART NUMBER

92000 2 Function Receiver + 2 Function Mini Transmitter. No Master

CONTENTS

- 1 x Receiver
- 1 x Mini Transmitter
- **1 x** Lanyard
- 1 x Instructions





REPLACEMENT TRANSMITTER

90002TX - 2 Function Mini Transmitter

REPLACEMENT RECEIVER

9200RX - 2 Function Standard Receiver - No Master

TRANSMITTER SPECIFICATION

ENCLOSURE

Material ABS

Switch Type Silicone Rubber keypad with carbon pill

Functions 2

Identification Subsurface printed transmitter label

RF

Modulation 2-GFSK. Gaussian Frequency Shift Keying

Frequency 433.050 MHz to 434.790 MHz 902.025 MHz-927.975 MHz

Channels 32 Channel Selection Fixed

Channel Selection Fixed Channel Hopping

Technology Hand-held Transmitter

Temperature Range $--10^{\circ}$ C to $+40^{\circ}$ C (13° F to $+104^{\circ}$ F). Use Lithium for lower temperatures

Range 45m (150ft)
Registration Codes Over 16 million

Aerial Internal – printed on PCB
Transmitted power < 0.4mW Typical

POWER

Batteries 2 x AAA – 3 volts.

 $\begin{array}{ll} \text{Quiescent Current} & 5 \mu \text{A} \\ \text{Current Standby (SET)} & 2 \text{mA} \\ \text{Current Transmitting} & 30 \text{mA} \\ \text{RF Radiated Power} & 0 \text{dBm} \end{array}$

SAFETY & PROTECTION

IP Rating 65
Reverse Polarity Protection Proteted

INDICATOR

Type 1 x Red LED

Off Transmitter is OFF and in standby mode
Slow flash Transmitter is ON and ready for use (The SET Button has been pressed and released)

On Transmitting (A STOP, SET or Function Button is being pressed)
Fast flash Transmitting – Indication that the battery will need replacing soon

COMPLIANCE

FCC CFR 47-part 15.231 FCC

FCC CFR 47-part 15.109 433.050MHz to 434.790MHz FCC CFR 47-part 15.249 FCC CFR 47-part 15.109 902.025MHz to 927.975MHz

IC ISED RSS-210 Issue 9

> ISED RSS-GEN Issue 4 ICES-003 Issue 6.

433.050MHz to 434.790MHz ISED RSS-210 Issue 9 ISED RSS-GEN Issue 5 ICES-003 Issue 6.

902.025MHz to 927.975MHz

RoHS Directive 2011/65/EU

RECEIVER SPECIFICATION

ELECTRICAL

12/24V DC Voltage Nominal Voltage Min/Max 8 to 36V DC

Switch Type MOSFET (Positive Switching)

RF

Modulation 2-GFSK. Gaussian Frequency Shift Keying

433.050 MHz to 434.790 MHz Frequency 902.025 MHz-927.975 MHz

Channels 32 **Channel Selection** Fixed

Channel hopping

Technology **Fixed Receiver**

Temperature Range -40°C to + 70°C (-40°F to + 158°F)

Range 60m (200ft)

CURRENT CAPACITY

FET Rating 10A System Rating 10A

Quiescent Current 31mA 12V/ 17mA 24V on Standby (Not SET)

Overload Protection (Auto Shutdown) 10A

AFRIAL

Internal Antenna Yes Supplied and fitted

AC9860/ AC9861/ AC9862/ AC9863 & AC9869 - order separately External Antenna Optional

OUTPUTS

Master No

Function 2 Supply to Receiver is switched

CONFIGURATION

RS232 Programming Yes For programming interlocks, push/push latch, parallel master inhibit, timeout, channel timeout delay, to users' requirements

master on delay, radio button de-latching and output allocation.

PERFORMANCE

Programable (Modify through configuration) **Simultaneous Outputs** Yes Instant TX response Programable (Modify through configuration) Yes

DIAGNOSTICS

Confirm 5 Volts, SET, Fault and all Outputs. LED's Yes

PROTECTION

Back EMF Yes Diode protection on all outputs

Registration codes Yes Over 16 million

STOP Connection Yes Internal Emergency Stop Connection

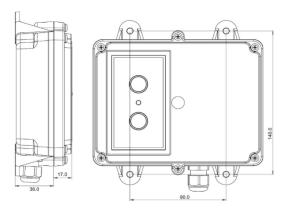
WIRING

3 metres (10ft) supplied and fitted Wiring Loom Yes

Cable Gland Supplied and fitted

Connections Screw terminal into plug and socket on PCB, for easy "swap out"

ENCLOSURE



Weight 0.3 lbs (335gms)

Lid Clear PC/FR V0 and UV stabilised
Base Black PC V0 and UV stabilised

Breather Gortex fitted in base Mounting 4 external lugs

Fixings 5mm (3/16") not supplied

IP Rating IP55

92 Series BUILD SPECIFICATION TABLE FOR MODELS IN THIS RANGE			9200RX	9202RX	9204RX
	+ - F1 F2	Positive, Negative, F1 and F2	S	S	S
	F3 F4 M	F3, F4, and Master		М	S
	ST -	STOP and -		S	S
	S+ S-	S+ S-		S	S
	ANT	Internal Antenna	S	S	S
	SMA	Connector (external antenna)		S	S
LK1	Р	Master - Parallel		С	С
LK2	С	Master – Continuous		С	С
LK3	RS232	RS232		S	S
		3 metres 4 core	S		
		3 metres 7 core		S	S
		9801 Lo-Cover			

S = Standard. M = Standard but Master only connected. C = Customer configured (see "Factory Settings").

 +
 Positive
 8-36V supply

 Negative
 0 Volts

 F1 to F4
 Outputs to F1 through F4

M Master Output

STOP - STOP, when grounded shuts down the Receiver S+S- Master Secondary for Safety solenoid connections etc.

ANT Blade connector for internal antenna

SMA Aerial connection for optional external antenna (internal antenna must be removed)

LK1 Master Selection by Jumper (Parallel)
LK2 Master Selection by Jumper (Continuous)

Factory Settings 418/915MHz configured Parallel, 433.92MHz configured Continuous RS232 RS232 for Wired Remote and interface to access special programmes

COMPLIANCE

REG 10 EC Type-approval mark E11 037601

EC Type-approval No: e11/72/245*2009/19*7601*00

FCC FCC CFR 47 Part 15.109

433.050MHz to 434.790MHz FCC CFR 47 Part 15.109 902.025MHz to 927.975MHz IC ICES-003 Issue 6.

433.050MHz to 434.790MHz

ICES-003 Issue 6.

902.025MHz to 927.975MHz

CE RED Directive

ETSI EN 300 220-2 v3.2. ETSI EN 300 220-1 v3.1.1. ETSI EN 301 489-17 V3.1.1, ETSI EN 301 489-1 V2.1.1 433.050MHz to 434.790MHz

Australia/NZ ETSI EN 300 220-2 v3.2.1

ETSI EN 301 489-1 V2.1.1 433.050MHz to 434.790MHz 915.025MHz to 927.975MHz

RoHS Directive 2011/65/EU