2 Function with Mini Transmitter

SYSTEM PART NUMBERS

92002 2 Function Receiver with Master + 2 Function Mini Transmitter

CONTENTS

- 1 x Receiver
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- 1 x Instructions



REPLACEMENT TRANSMITTER

90002TX - 2 Function Mini Transmitter

REPLACEMENT RECEIVER

9202RX - 2 Function Standard

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 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 FCC CFR 47-part 15.231

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

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

MOSFET (Positive Switching) Switch Type

RF

2-GFSK. Gaussian Frequency Shift Keying Modulation

Frequency 433.050 MHz to 434.790 MHz 902.025 MHz-927.975 MHz

Channels 32 **Channel Selection** Fixed

Channel hopping

Technology **Fixed Receiver**

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

60m (200ft) Range

CURRENT CAPACITY

FET Rating 10A System Rating 10A

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

Overload Protection 10A (Auto Shutdown)

AERIAL

Internal Antenna Yes Supplied and fitted

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

OUTPUTS

Master Yes Parallel or Continuous 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 Programable (Modify through configuration) Instant TX response Yes

DIAGNOSTICS

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

PROTECTION

Diode protection on all outputs Back EMF Yes

Registration codes Over 16 million Yes

STOP Connection Yes Internal Emergency Stop Connection

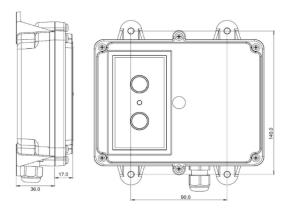
WIRING

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

Cable Gland Yes Supplied and fitted

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

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
Ident	Legend	Connection	6	6	6
	+ - 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").

 $\begin{array}{cccc} + & & Positive & 8-36V \ supply \\ - & & Negative & 0 \ Volts \\ F1 \ to \ F4 & Outputs \ to \ F1 \ through \ F4 \end{array}$

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