2 Function with Standard Transmitter

92 Series - FET System

SYSTEM PART NUMBER

92100 2 Function Receiver + 2 Function Standard Transmitter

REPLACEMENT TRANSMITTER

92102TX 2 Function Standard Transmitter

CONTENTS

1 x Receiver
1 x Standard Transmitter
1 x Lanyard
1 x LoCover
1 x Instructions

STANDARD TRANSMITTER SPECIFICATION

SWITCH

Type	Tactile Dome

BATTERY

Type	9V Alkaline Manganese (GP 1604A – JIS 6LF22 – IEC 6LF22 – Eveready 522 – Duracell MN1604)

CURRENT DRAW

Quiescent	15 micro amps
Operating	20 milliamps

PROTECTION

IP Rating	55
Registration codes	Over 16 million

PERFORMANCE

Temp Range	-10° C to + 40° C (13° F to + 104° F)
Range Nominal	60 metres (200 ft) from the Receiver, when driving a momentary output without signal drop out
Transmitted power	1 mW Typical

COMPLIANCE

EMC	Exceeds ETSI 300 220. Compliant E11 10R-037601	
Modulation	FM	
Frequencies	418.00 MHz F1D	USA (optional UK)
	433.92 MHz F1D	World wide (optional USA)

RECEIVER SPECIFICATION

SWITCH TYPE

Output Switching	MOS Field Effect Transistor (P Channel Power MOSFET)

SUPPLY VOLTS

Nominal	12/24 Volts DC
Absolute Maximum	40 Volts DC
Minimum	8 Volts DC
Output Switch Supply	Internal 12/24 Volts

AMPS

FET Rating	15 Amps
System Rating	15 Amps
Quiescent Current	25 mA on Standby (Not SET)
Overload Protection	15 Amps (Auto Shutdown)

AERIAL

Internal Antenna	Yes	Supplied and fitted
External Antenna	Optional	See Accessories.

OUTPUTS

Function	2	Supply to Receiver is switched

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CONFIGURATION

RS232 Programming to user's requirements	Yes	Not all models, see Build Specification Table. For programming interlocks, push/push latch, parallel master inhibit, timeout, channel timeout delay, master on delay, radio button de-latching and output allocation.

PERFORMANCE

Simultaneous Outputs	Yes	With horizontal interlocks (Interlocks are programmable – see CONFIGURATION above)
Instant TX response	Yes	No perceivable delay between TX operation and RX action

DIAGNOSTICS

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

PROTECTION

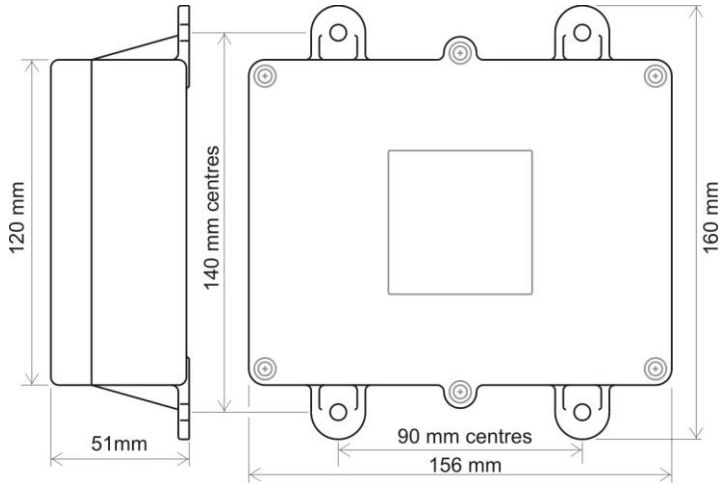
ESR Safety	Yes	See ESR Safety document.
Back EMF	Yes	Diode protected on all outputs
Registration codes	Yes	Over 16 million
STOP Connection	Yes	Internal Emergency Stop Connection. Not all models, see Build Specification Table.

WIRING

Wiring Loom	Yes	3 metres (10ft) supplied and fitted
Cable Gland	Yes	Supplied and fitted
Connections		Screw terminal into plug and socket on PCB, for easy "swap out"

ENCLOSURE

Weight	0.3 lbs (335gms)
Lid	Clear PVC - to view LEDs
Base	Black PVC
Breather	Gortex fitted in base
Mounting	4 external lugs
Fixings	5mm (3/16") not supplied
IP Rating	Performs to IP67 standard (0.5 metre water for 1 hour)



ACCESSORIES

9861, 9862, 9863 and 9869 – External Antenna with cable.

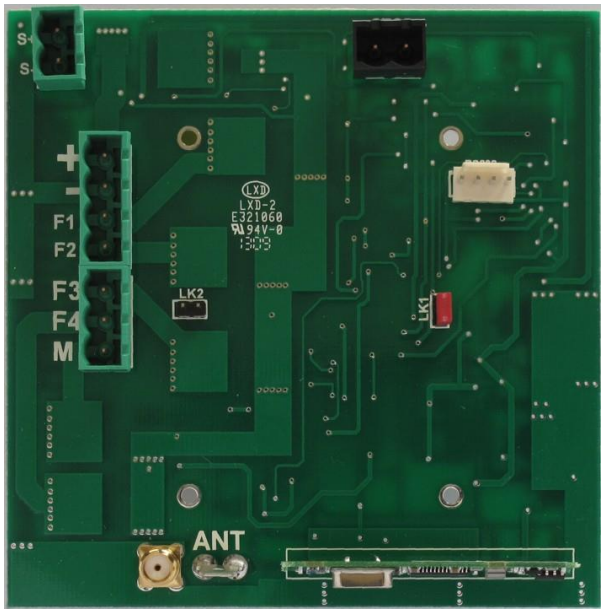
92 Series BUILD SPECIFICATION TABLE FOR MODELS IN THIS RANGE			92 0 00	92 0 02	92 0 04	92 1 00	92 1 02	92 1 04
Ident	Legend	Connection						
	+ - F1 F2	Positive, Negative, F1 and F2	S	S	S	**S**	S	S
	F3 F4 M	F3, F4, and Master		M	S		M	S
	ST -	STOP and -		S	S		S	S
	S+ S-	S+ S-		S	S		S	S
	ANT	Internal Antenna	S	S	S	**S**	S	S
	SMA	Connector (external antenna)		S	S		S	S
LK1	P	Master - Parallel		C	C		C	C
LK2	C	Master – Continuous		C	C		C	C
LK3	RS232	RS232		S	S		S	S
		3 metres 4 core	S			**S**		
		3 metres 7 core		S	S		S	S
		9801 Lo-Cover				**S**	S	S

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

+	Positive 12/24 Volt supply
-	Negative 0 Volts
F1, F2, F3 & 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	Jumper fitted to this link for continuous Master
LK2	Jumper fitted to this link for parallel Master
Factory Settings	418MHz configured Parallel, 433.92MHz configured Continuous
LK3	RS232 for interface to access special programmes
	Also for connection to RS232 modules

Photo of PCB

Connector Side



Component Side