92 Series - FET System 2 Function with Mini Transmitter

SYSTEM PART NUMBERS

92 0 02	2 Function Receiver	with Master	+ 2 Function Mini Transmitter

SPECIAL ORDER

92 0 03	3 Function Receiver	+ 4 Function Mini Transmitter

REPLACEMENT TRANSMITTERS

90 0 02TX	2 Function	Mini Transmitter

SYSTEM CONTENTS

1 x Mini Transmitter

1 x Lanyard

1 x Receiver
with Wiring Harness
and Glands

1 x Instructions

Illustrated Model Number 92004

MINI TRANSMITTER SPECIFICATION

SWITCH

Type	Rubber membrane with carbon contact

BATTERY

Type	3 Volts (2 x AAA)

CURRENT DRAW

Quiescent	4 micro amps
Operating	20 milliamps

PROTECTION

Reverse polarity	Protected
IP Rating	65
Registration codes	Over 16 million

PERFORMANCE

Temp Range	-10° C to + 40° C (13° F to + 104° F)
Range Nominal	45 metres (150 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

Master	1	Can be Parallel or Continuous. Not all models – see Build Specification Table.
Function	2	
Master (Secondary)	1	Continuous. Not all models, see Build Specification Table.

CONFIGURATION

RS232 Programming to users 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

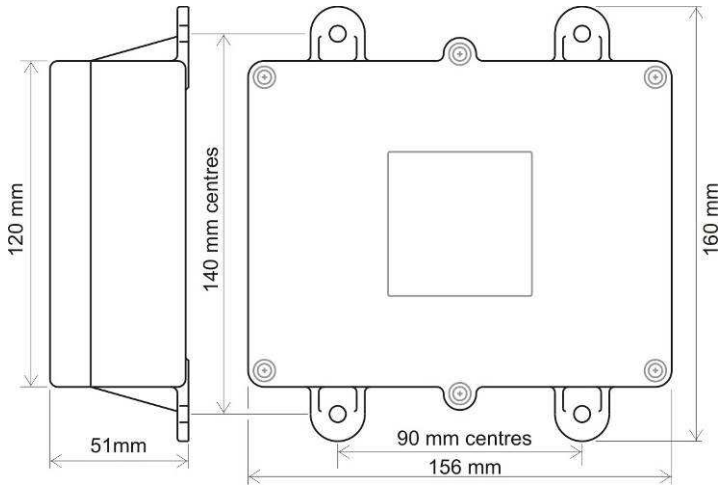
ESR Safety	Yes	See ESR Safety document.
Back EMF	Yes	Diode protected on all outputs
Registration codes	Yes	Over 16 million
STOP Connection	Yes	Internal Emergency Stop Connection. Not all models, see Build Specification Table.

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.

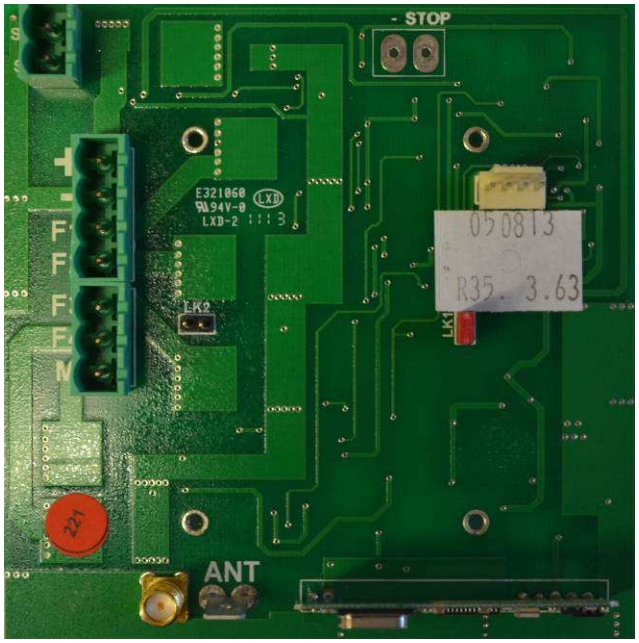
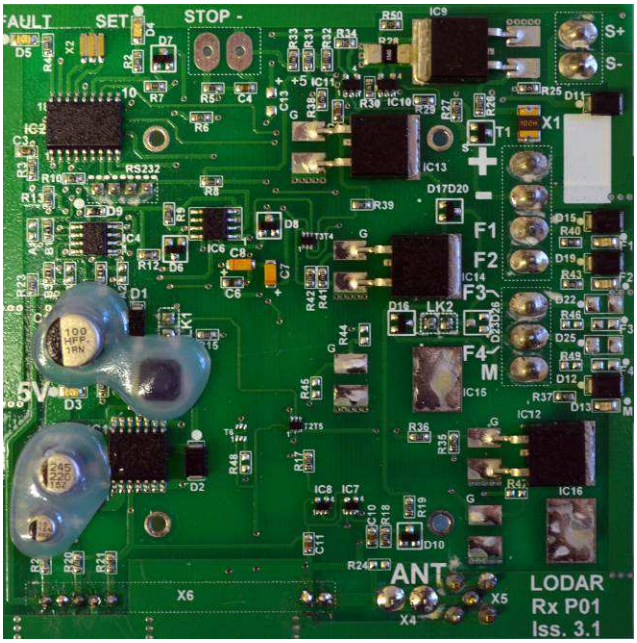
92 Series			92 0 00	92 0 02	92 0 04	92 1 00	92 1 02	92 1 04
BUILD SPECIFICATION TABLE FOR MODELS IN THIS RANGE								
Ident	Legend	Connection						
	+ - F1 F2	Positive, Negative, F1 and F2	S	S	S	S	S	S
	F3 F4 M	F3, F4, and Master		M	S		M	S
	ST -	STOP and -		S	S		S	S
	S+ S-	S+ S-		S	S		S	S
	ANT	Internal 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