

FEATURES

- Operates on international licensed and licence free radio telemetry bands.
- RF frequency
 - 125 MHz to 180 MHz
 - 400 MHz to 500 MHz
 - 860 MHz to 960 MHz
- Type approved to ETSI 300-220, ETSI 300-113, MPT1328, MPT1329, MPT1340, MPT1344
- 4 Digital Outputs, Voltage free contacts 30Vdc @ 2A, 125Vac @ 0.5A
- 1 Pulse Output (factory set)
- 1 Analogue Output 0-20mA, 0-10V, 0-500mV
- 1 Serial Data Port
- LCD Display for displaying Digital and scaled Analogue Outputs
- IP65 Polycarbonate Enclosure
- Powered from 12-30Vdc, 110Vac, 240Vac
- Size 160mm by 80mm by 55mm

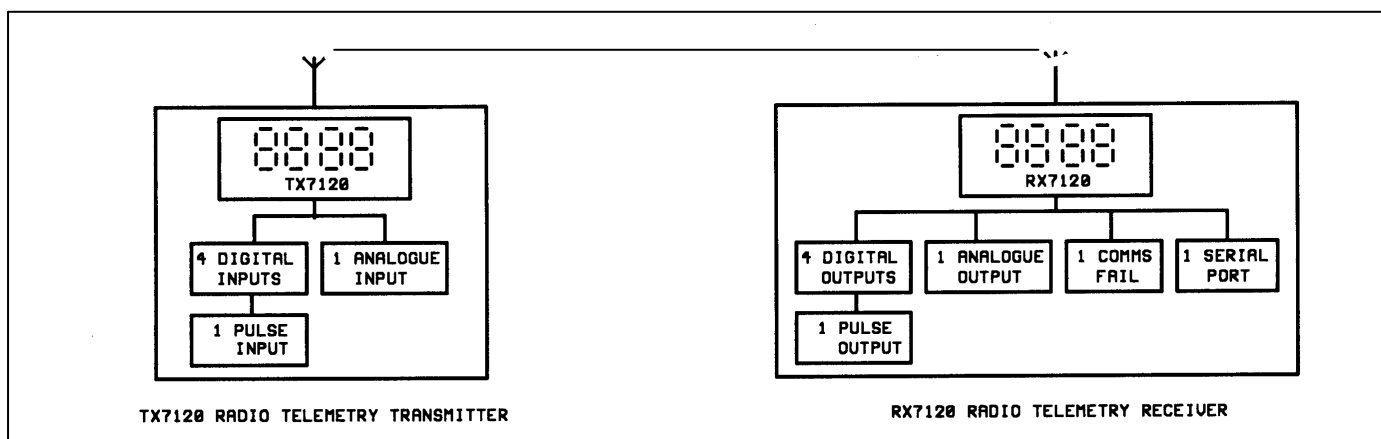


DESCRIPTION

The RX7120 Radio Telemetry Receiver receives analogue, digital and pulse counter data by means of VHF or UHF radio. An LCD display is provided so that digital and scaled analogue outputs can be continually displayed in real time. Dots appear on the LCD display to indicate a radio message.

A real time back to back radio telemetry link can be implemented with a TX7120 Transmitter. The received analogue data can be presented as a voltage or a current. Four voltage free digital outputs are provided, one of which can be set as a pulse counter output. In addition the serial output port can be used to present the received data direct to a SCADA package.

A communication failure or power failure is indicated by a voltage free contact opening along with "ERR" being displayed on the LCD Display. The response time of the status relay can be set from 0.5mins to 50mins.



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CONNECTIONS

PIN	FUNCTION	DESCRIPTION	DIRECTION
1	+VE	12V Positive DC Input from PSU	IN
2	- VE	0V Negative DC Input	IN
3	DGO	Digital Output 1 Volt Free Contacts	OUT
4	DGI	Digital Output 2 Volt Free Contacts	OUT
5	DG2	Digital Output 3 Volt Free Contacts	OUT
6	DG3	Digital Output 4 Volt Free Contacts Pulse Output (factory set option)	OUT
7	ALM	Communication Fail Alarm Volt Free Contacts	OUT
8	COM	Common Connection to all Five Contacts	OUT
9	AN1	Analogue Output 0-20mA, 0-10V, 0-0.5V (factory set)	OUT
10	OV	Common 0V Connected Internally to – VE PIN 1	OUT
11	SER	RS232 Serial Output (factory set) 9600 Baud, No Parity, 1 Stop Bit	OUT

REVIEW SETUP MENU

The current settings can be displayed as follows:

- Press the grey button. The time delay at which the status relay will de-energize after not receiving good data will be displayed. (0.5 mins to 50mins)

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- Press the grey button switch. The scaling factor (1 - 9) will be displayed. This represents the full scale reading in multiples of 1000.

Sc 2

CHANGE SETUP

The current setting can be changed as follows:

- Set the red and blue switches to 99 and press the grey switch.
- The above sequence is repeated but at each stage the values can be changed by either the blue or red buttons

RADIO RECEIVER

The RX7120 Radio Telemetry Receiver is offered on three RF frequency bands:

125 MHz to 180 MHz
400 MHz to 500 MHz
860 MHz to 960 MHz

The standard frequencies are:

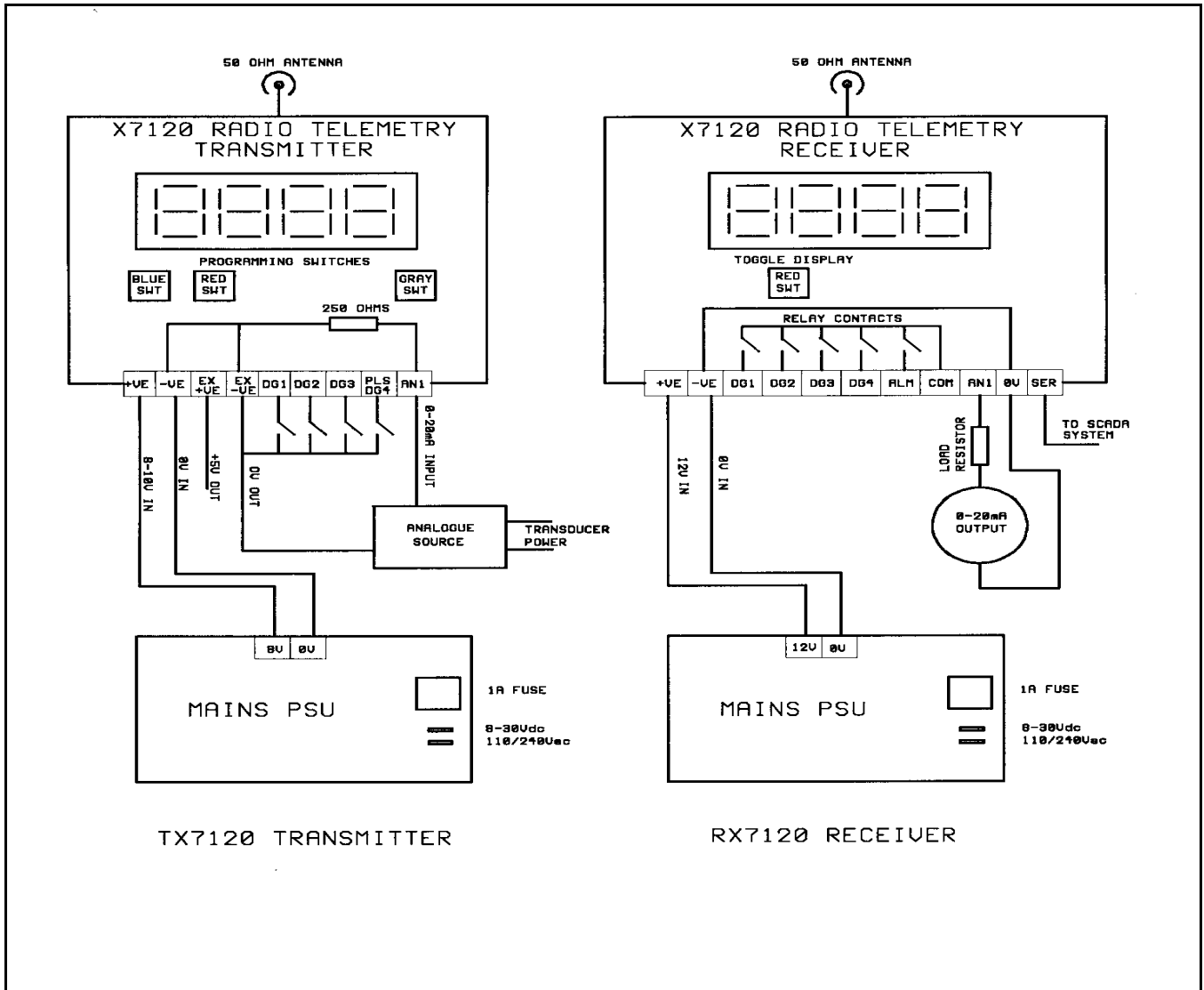
173.225MHz
433.075 MHz to 434.775 MHz
458.525 MHz to 458.925 MHz
868.000 MHz to 868.975 MHz

Two additional variants can be supplied:

Lease Telephone Line Interface
Dial-Up GSM Interface operating on the Mobile Phone Network.

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