

TEL1-40kTTL

Telemetry transmission of TTL pulses from 4Hz to 40kHz
Range 300-500m



- 4 to 40000 Hz TTL impulse
- Transmission range up to 500m
- Telemetry systems can work with 4 different carrier frequencies in the 433MHz band
- Carrier frequencies 433.3, 433.7, 434.1 or 434.5
- Powering 10-30V

Specifications

Transmitter

Power supply voltage: 10 - 30V DC
 Power consumption: 0.5W
 Input signal level: TTL
 Connector type: BNC
 Weight: 435g
 Dimensions: 105 x 105 x 45
 (without connectors)

Receiver

Power supply voltage: 10 - 30V DC
 Power consumption: 1.35W
 Output signal level: TTL (0V, 5V)
 Output impedance: 2k Ω
 Connector type: BNC
 Weight: 490g
 Dimensions: 105 x 105 x 45
 (without connectors)

Transmitter antenna

Cable: RG 058-PE (length 4m)
 Gain: +4dB (rel. to $\lambda/4$ antenna)
 Frequency range: 410-470MHz
 Mounting: Magnetic socket
 Length: 400mm
 Connector type: TNC
 Weight: 600g (without cable)

Receiver antenna

Cable: RG 058-PE (length 4m)
 Gain: +4dB (rel. to $\lambda/2$ antenna)
 Frequency range: 410-470MHz
 Mounting: Magnetic socket
 Length: 400mm
 Connector type: TNC
 Weight: 600g (without cable)

Transmission

Transmission range: up to 500m
 (line-of-sight connection)
 Transmission power: 10mW
 Transmission delay: 35 μ s (constant)
 Carrier frequencies: 433.3, 433.7, 434.1 or
 434.5 (simultaneous operation
 of up to 4 systems possible)

Environmental

Operating temperature: -10 - 70°C
 Storage temperature: -20 - 70°C
 Humidity: 20 - 80% (non-condensing)
 Vibration: 5g
 (Mil Standard 810C, Curve C)
 Shock: 100g (in any direction)

Accuracy for interference-free connection:

Set contains:

1x TEL1-TTL-40k-TX (Transmitter) 1x TEL1-TTL-40k-RX (Receiver)
 1x 4dB transmitting antenna, 1x 4dB receiving antenna,
 2x DC power cable, 1x AC/DC converter

