

# 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 $\Omega$   
 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 $\mu$ 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

