

Via Acquanera 29, 22100 COMO (Italy) tel. +39.031.525391 - fax +39.031.507984 - info@instrumentation.it

Kraus Messtechnik GmbH

Gewerbering 9, D-83624 Otterfing, **≅** +49-8024-48737, Fax. +49-8024-5532 − Germany Web: www.kmt-gmbh.com E-mail: info@kmt-gmbh.com



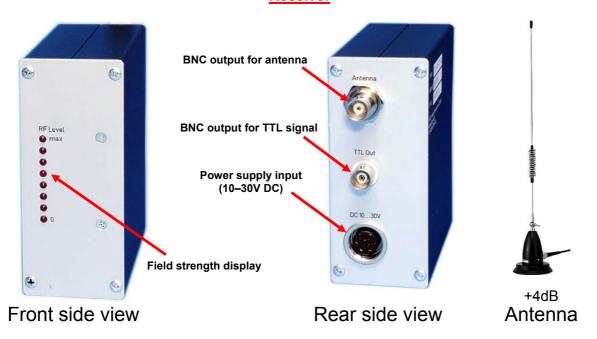
TEL1-40kTTL

Telemetry transmission of TTL pulses in the range from 40Hz to 40kHz Range 300-500m

Transmitter



Receiver



Specifications

Transmitter

Power supply voltage: 10 - 30V DC

Power consumption: 0.5W Input signal level: TTL

20-80% (will only transmitted Tolerated duty cycle:

up to 1kHz - then moved to 50%

on receiver side)

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

RG 058-PE (length 4m) Cable: Gain: 0dB (rel. to $\lambda/4$ antenna)

Frequency range: 410-470MHz

Magnetic socket (Ø73mm, Mounting:

adhesive force 100N, min. area 0.5m2)

Length: 180mm 50W Max. power: Connector type: BNC

Weight: 300g (without cable)

Receiver antenna

RG 058-PE (length 4m) Cable: Gain: +4dB (rel. to $\lambda/2$ antenna)

Frequency range: 410-470MHz

Magnetic socket (Ø73mm, Mounting:

adhesive force 100N, min. area 0.5m²)

Length: 400mm 50W Max. power: **BNC** Connector type:

Weight: 600g (without cable)

Transmission

40000

Transmission range: up to 500m

(line-of-sight connection)

10mW (with European license) Transmission power:

Transmission delay: 35μS (constant)

Carrier frequencies: 433.3, 433.7, 434.1 or

434.5 (simultaneous operation of up to 4 systems possible)

Accuracy for interference-free connection:

1.75

Environmental

Operating temperature: 0 - 70°C Storage temperature: -20 - 70°C

20 - 80% (non-condensing) Humidity:

Vibration: 5g

(Mil Standard 810C, Curve C) Shock: 100g (in any direction)

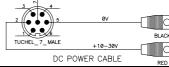
3.75

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Frequency	Max. rel. frequency error for one period [%]	
[Hz]	Duty cycle 50%	Duty cycle 20%
40	0.005	0.175
100	0.075	0.175
1000	0.10	0.175
10000	0.25	0.50
20000	0.50	0.85
30000	1.25	1.75

DC power cable

Pin assignment:





Specifications are subject to change without notice!

Note

Avoid any contact of the magnetic socket of the antennas with the transmitter or receiver, because the ferrite cores of the internal band filters will premagnetized and change their center frequency. For transportation put every time an iron plate on the magnetic socket area to absorb the magnetic field strength.

