**elmes®
electronic**

Universal Two Channel Transmitter Elmes MTX

The advantages of Elmes MTX two channel transmitter in construction of specific remote control systems are reliable operation and small size. This universal device is Elmes remotes compatible with KEELOQ® dynamic code encryption and operates with all Elmes Electronic made receivers. Its design is that of any Elmes remote transmitters except for the fact that it does not include any switches on board. Instead, a couple of wires are provided for connecting external switching devices that trigger transmission. Maximal operating range in open field is 100m. The operating range may be reduced due to installation and environmental conditions. As standard, it is 9V battery powered and could be installed in an ordinary 60mm deep wall switch housing for wireless control of window roller or a garage door that use Elmes made ST… series controllers. The radio control transmission is triggered then by operating wall switch shorting one of the two control wires (red or/and blue) to common black wire featuring a minimum of one second transmission duration time. The MTX may also be powered from alarm system line voltage ranging from 12 to 13,8 VDC. Its use may improve wireless security systems, property protection, alarm detection and wireless signalling. Its simple operation mode is based on transmissions triggered by shorting two wire interface and allow numerous application fields in house hold installations and general remote control use.

The transmitter should be installed in dry and not metal shielded location, away from any sources of radio frequency interference that could reduce its operating range.

Description of three wire trigger input:

Red Wire – used to trigger transmission with control channel 1 set on,
Blue Wire – used to trigger transmission with control channel 2 set on,
Black Wire – common – used for shorting to transmission triggering wires above.

Specification

- EU compliant 433,92MHz radio band,
- power supply by 9V alkaline battery, or 12VDC – 13,8VDC line,
- battery life: up to 60,000 switch on cycles,
- operating temperature range: -20 to +40ºC,
- external dimensions: (L/W) 31/22mm.

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Manufacturer
ELMES Electronic, 54-611 Wroclaw - Poland, ul. Avicenny 2,
tel. (071) 784-59-61, fax: (071) 784-59-63, e-mail: elmes@elmes.pl

Manufacturer's Limited Warranty. Elmes Electronic products carry manufacturer's two years limited warranty as from date of purchase. The warranty is limited to the replacement of faulty original parts or repair defects of improper manufacture. Damage, faulty use or improper handling by user or installer, changes in product's hardware or software made by unauthorized person violets the warranty and repair costs will be charged. The customer covers costs of delivery to and from the manufacturer of the products to be serviced. Elmes Electronic shall not be liable for any personal or material damage resulting from any of its products direct, indirect or partial failure to operate properly.

KEELOQ® is a registered trademark of Microchip Technology Inc.

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DEKLARACJA ZGODNOŚCI
DECLARATION OF CONFORMITY

Elmes Elektronik deklaruje, że jego produkt:
Elmes Electronic hereby declares that its product:

UNIWERSALNY NADAJNIK DWUKANAŁOWY MTX
DOUBLE CHANNEL UNIVERSAL TRANSMITTER MTX

jest zgodny z niżej wymienionymi wymaganiami zasadniczymi:
complies with essential requirements of the following directive:

R&TTE 1999/5/EC Dyrektywa dla Urządzeń Radiokomunikacyjnych, Radio & Teleterminal Equipment Directive

a w szczególności, z niżej podanymi normami:
and applied harmonized standards, in particular:

ETSI EN 300 220-3 V1.1.1 (2000-09) Electromagnetic Compatibility and Radio Spectrum Matters,
ETSI EN 300 220-1 V1.3.1 (2000-09) Electromagnetic Compatibility and Radio Spectrum Matters,
ETSI EN 301 489-1 V1.5.1 (2002-08) EMC standard for radio equipment,
ETSI EN 301 489-3 V1.4.1 (2002-08) EMC standard for radio equipment,
PN-EN 60950-1:2004 Bezpieczeństwo-wymagania podstawowe.
Electric Safety

Produkt może być używany w krajach Unii Europejskiej
Product can be used in European Union member countries.

Producent / Manufacturer:
ELMES ELEKTRONIK, Avicenny 2, 54-611 Wrocław, Poland

Podpis / Signature: M. Binkowski - Dyrektor

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Data/Date   01.12.2009r.