

We control the future

safe  
compact  
lightweight

# Industrial remote control TC 100



Theimeg industrial remote controls are innovative, reliable and ergonomic.

Theimeg radio controls can be used in a variety of applications:

- Cranes
- Column swivel cranes
- Wall swivel cranes
- Bridge cranes
- Portal cranes
- Machine controls
- Traction and lifting devices
- Truck controls
- Electrical chain hoists
- Gate and sluice controls
- Electrical crane trolleys

**CATRON**  
*theimeg*™

# Industrial remote controls TC 100 Quadro, Handy, Mini



TC 100 Quadro

## TC 100 Quadro

The TC 100 Quadro features innovative technology, ease-of-handling and is very lightweight.

# Transmit



TC 100 Handy

It is equipped with:

- 4 dual pressure push-buttons
- 1 mushroom-switch for stop function
- 1 signal push-button

The transmission frequency can be set in the range 410 MHz - 490 MHz. The battery is normally recharged with a standard charger unit via the recharging socket on the transmitter housing. The receiver is normally fitted with a PG screw connection.

16 output relays, 14 normally-open contacts and 2 change-over contacts are available to the user. Flexible choice of frequency and receiver designs enable the device to be used in a wide range of applications. The TC 100 Quadro is an inexpensive alternative to cable-based crane and machine controls.



TC 100 Mini

## TC 100 Handy

The TC 100 HANDY combines reliability and user-friendliness by means of intelligent technology and ergonomic design. The transmitter can easily be operated with one hand.

It is equipped with:

- 6 dual pressure push-buttons with perceptible pressure point
- 3 push-buttons
- 1 electronic selector switch
- 1 mushroom-head switch for stop function

The TC 100 HANDY is an inexpensive alternative to cable-based crane controls. Innovative technology permits master/slave operation or tandem operation.



Recharger



TC 100 Receiver



Receive

Latest synthesising technology with Autoscan-function enables the user to set or adjust frequencies by means of DIP-switches or by the searching function. A pouch with or without a side window is available.

The receiver is normally equipped with 16 output relays - of which 14 are normally-open contacts and 2 are change-over contacts.

- It is equipped with: 1 single axis joystick for 1 two-stage drive
- 1 dual axis joystick for 2 two-stage drives
- 3 push-buttons
- 1 three-way selector switch

The above features mean that the TC 100 MINI is an alternative to the TC 100 HANDY.

The TC 100 MINI is normally supplied with a cushioned waist belt or optionally with a user-friendly body harness.



## TC 100 MINI

The TC 100 MINI combines innovative technology with perfect design. The transmitter is robust and ergonomic in design. Synthesising technology, master/slave or tandem control are integral components of the TC 100 MINI technology.

Customised transmitter designs are optionally available in addition to the standard version.



Harness



# General information and technical data TC 100

Frequency range:	410 - 490 MHz (70 cm band)	Receiver sensitivity:	≤ 1 µV @ 10 dB (S/(S+N+D))
Approval:	national as well as international approvals	Digital electronics:	micro-processor system with double cut off of the main relays in the receiver
Modulation:	FM (Frequency Modulation)	Operating temperature:	-20° C to +60° C
Signal coding:	PPM	Receiver relays:	output relays: max. 250 V AC/5A (ohmic load)
Transmission speed:	4.800 Bd. on the radio circuit	Protection type:	transmitter IP 65, receiver IP 65
Typical response time:	70 ms (at 4.800 Hz)	Receiver operating voltage:	48V, 115V, 230V AC, 50/60 Hz or 12V, 24V, 48V DC
Hamming distance:	d ≥ 6 (message check)	Safety:	category 3 (EN 954-1)
Transmission power:	10 mW		

## TC 100 Receiver

- AC power supply unit 48V, 115V, 230V AC 50/60 Hz
- DC power supply unit 12V, 24V, 48V DC
- Synthesiser HF module with autoscans-function
- 500 ms passive stop time
- 2 redundant passive stop circuits
- relay switching power 250 V AC / 5A
- frequency setting via DIP-switches or autoscans
- PC interface for diagnosis
- system-address with parity (16 Bit)
- PG screw connection as standard connection
- protection class: IP 65
- dimensions WxHxD: 200 x 200 x 70 mm

## TC 100 Mini

- 1 dual axis joystick for 2 drives (2-stage)
- 1 single axis joystick for 1 drive (2-stage)
- 1 three-way selector switch
- 2 push-buttons
- 1 side-mounted push-button
- 1 key switch (on/off)
- 1 mushroom-head switch, rotating unlocking facility, for stop function
- integrated antenna
- PC interface for diagnosis
- synthesiser RF part (frequency setting via DIP-switches or autoscans)
- LED for status and fault indication
- independent monitoring unit used for monitoring the transmitted address
- 2 rechargeable batteries with 0.6 Ah (option 1.6 Ah)
- weight: approx. 1,6 kg
- dimensions WxHxD MINI: 215 x 136 x 147 mm

## TC 100 Handy

- LED's for status and fault indication
- 6 dual pressure push-buttons
- 3 push-buttons
- 1 mushroom-head switch, rotating unlocking facility, for stop function
- 1 electronic selector switch
- 1 key switch (on/off)
- 2 replaceable batteries with 0.6 Ah (option 1.6 Ah)
- integrated antenna
- independent monitoring unit used for monitoring the transmitted address
- PC interface for diagnosis
- synthesiser RF part (frequency setting via DIP switches)

## TC 100 Quadro

- 1 LED for status and fault indication
- 4 dual pressure push-buttons
- 1 signal push-button
- 1 mushroom-head switch for the stop function
- integrated antenna

### Options:

- mechanical selector switch for Handy
- 5 push-buttons for HANDY
- TC 100 Mini Transmitter inside TC 200 EC transmitter casing
- tandem operation (2 transmitters onto 2 receivers)
- Field bus cards: Profi-DP, Interbus-S
- Relays output via heavy duty connector

UNITED STATES  
Cattron-Theimeg International Inc.  
58 West Shenango Street  
Sharpsville, PA 16150  
Phone: +1-724-962-3571  
Fax: +1-724-962-4310  
e-mail: mail@cattron.com

CANADA  
Cattron-Theimeg Canada Ltd.  
150 Armstrong Avenue, Units 5 - 6  
Georgetown, Ontario L7G 5G8  
Phone: +1-905-873-9440  
Fax: +1-905-873-9449  
e-mail: salescdn@cattron.com

EUROPE  
Cattron-Theimeg Europe GmbH & Co. KG  
Krefelder Straße 423 - 425  
D-41066 Mönchengladbach  
Phone: +49-2161-6363-0  
Fax: +49-2161-6363-100  
e-mail: theimeg@theimeg.de

AFRICA  
Cattron-Theimeg Africa (Pty.) Ltd.  
24 O'Rielly Merry Road, Rynfield, Benoni.  
P.O. Box 15444, Farrarmere, Benoni  
Gauteng 1518, South Africa  
Phone: +27-11-425-1123  
Fax: +27-11-849-5717  
e-mail: cattron@iafrica.com

BRAZIL  
Cattron-Theimeg Américas Ltda.  
Rua Antonio Rodrigues de Carvalho, 435  
13033-220 - Campinas - SP  
Phone: +55-19-243-7803  
Fax: +55-19-243-9258  
e-mail: cattronamericas@usa.net

UNITED KINGDOM  
Cattron-Theimeg UK Ltd.  
Riverdene Industrial Estate,  
Molesey Road, Hershaw  
Walton-on-Thames, Surrey KT12 4RY  
Phone: +44-1932-247511  
Fax: +44-1932-220937  
e-mail: sales@cattronuk.com