



large scale lifting solutions.

TIGER

TELE RADIO[®]
REMOTE CONTROL 


TIGER

The background of the entire page is a photograph of construction cranes at sunset. The sun is a bright, glowing orb in the center of the frame, partially obscured by the silhouettes of the cranes. The sky is a mix of orange, yellow, and dark blue. The cranes are dark silhouettes against the bright sky, with their long jibs extending across the frame.

Tiger is developed for those of you who need to radio remote control lifting applications like cranes, OHT cranes and electric hoists. When you radio remote control your application with Tiger you get qualities such as duplex communication, CANopen and Modbus - all in the same system. You get feedback from your application - it gives you full control.

All Tiger transmitters and receivers have a duplex function. The receivers can communicate with

one or more external units, e.g. a weight sensor, through serial communication - Modbus. You get visible feedback through the LEDs on the transmitter showing that the communication between the transmitter and the receiver is working. Several transmitters also have a display on which you get further feedback. For example you can get information on the weight of your load if you have connected a weight sensor to your receiver.

A large, semi-transparent tiger's face is superimposed over a sunset sky. The tiger's eyes are closed, and its mouth is slightly open, showing its teeth. The background shows a construction site with a crane and building silhouettes against the orange and yellow sky.

With Tiger you get maximum security. Both the system's stop function and two selected relays inside the receivers are SIL 3 IEC 61508 approved. The two selected relays can be programmed in order to obtain extra high function security. Tiger transmits on 433-434 MHz, and you have 69 channels to choose from. This means you can always find a channel to work on, even if there is more radio remote controlling performed nearby. You have a large number of configurations to choose from. For example, you can have the option that each user must log in using a unique RFID tag in order to start the system. This prevents unauthorised persons from using

the system and the application. Another safety precaution is to equip the transmitters with a horn, which both warns you when the battery level is low and if a possible failure should occur.

Tiger complies with the requirements placed in connection with radio remote controlling advanced lifting applications. Both when it comes to technology, safety (SIL 3 IEC 61508), functionality and flexibility. The Tiger software is developed in such a way that it can easily be modified. This means that we can easily adapt the system to fit your needs.

General information about the Tiger system

- The system transmits on 433 - 434 MHz, 69 channels to choose from.
- Transmitter and receiver with duplex function.
- The system's stop function and two selected relays inside the receivers are SIL 3 IEC 61508 approved.
- The two selected relays have extra high function security.
- The system's software is developed in such a way that it can be easily modified.
- The transmitter and receiver protection is approved for moist and dust according to IP65.
- Each user has to use their own RFID tag to start the transmitter. Unauthorised persons cannot use the system.
- Hamming distance bigger than 9 for decreased interference.
- The radio packages are protected by a 32 bit CRC to ensure the integrity of the radio traffic.



safety

Information about Tiger transmitters

- Visible feedback through the LEDs on the transmitter showing that the communication between transmitter and receiver is working.
- Button transmitter is available with or without a display. This transmitter can show useful information to the user such as weight data, signal strength, battery level, etc.
- All transmitters are equipped with a horn. It warns you when a failure occurs and when the battery level is low.
- Each user has to use their own RFID tag to start the transmitter. Unauthorised persons cannot use the system.
- The transmitter protection is classified as IP65.
- Rechargeable and replaceable battery, Li-ion, with a new attachment.

Information about Tiger receivers

- The receivers communicate with external units via Modbus.
- The receiver can be supplied with CANopen.
- A large number of configurations on the receivers.
- The receivers accept 12-350V DC and 24-230V AC.
- The receiver protection is classified as IP65.





feedback

Technical specifications.



TRANSMITTER	TX1-A	TX2-A	JD1-A	JD2-A
Frequency (MHz)	433,075 - 434,775	433,075 - 434,775	433,075 - 434,775	433,075 - 434,775
Channels	69	69	69	69
Unique individual code	•	•	•	•
Duplex	•	•	•	•
Number of functions	10x2	12x2	2x2	2x4
Built-in antenna	•	•	•	•
Power supply	Li-ion	Li-ion	Li-ion	Li-ion
Power consumption*	~50-250 mA	~50 mA	~50-250 mA	~50-250 mA
IP class	IP65	IP65	IP65	IP65

*) Without backlit display



RECEIVER	RX1-A	RX2-A	RX3-A
Frequency (MHz)	433,075 - 434,775	433,075 - 434,775	433,075 - 434,775
Channels	69	69	69
Antenna	External	External	External
Duplex	•	•	•
Power supply	12-350V DC 24-230V AC	12-350V DC 24-230V AC	12-350V DC 24-230V AC
Functions	12	28	12 (CANopen)
Power consumption	~20-1200 mA	~20-1200 mA	~20-1200 mA
Size	256x217x85 mm 10.1 x 8.5 x 3.3 in	256x217x85 mm 10.1 x 8.5 x 3.3 in	256x217x85 mm 10.1 x 8.5 x 3.3 in
IP class	IP65	IP65	IP65



Vianet Sverige AB
Connecting Systems

Midgårdsvägen 20, S-973 34 LULEÅ
Tel: 0920-22 24 10, Fax: 0920-22 24 20
E-Mail: info@vianetab.se
Gsm: 070-545 14 52, 070-545 17 81

TELE RADIO AB

Sweden, Main office
Tel. +46 (0)31-748 54 60
e-mail: info@tele-radio.com

www.tele-radio.com

TELE RADIO SVERIGE

Sweden
Tel. +46 (0)31-724 98 00
e-mail: sverige@tele-radio.com

TELE RADIO OÜ

Estonia
Tel. +372 44 511 55
e-mail: eesti@tele-radio.com

TELE RADIO GmbH

Germany
Tel. +49 (0)94 51-944 8 550
e-mail: deutschland@tele-radio.com

TELE RADIO ASIA

China
Tel. +86-(0)592-3111168
e-mail: china@tele-radio.com

TELE RADIO TURKEY

Turkey
Tel. +90 216 574 22 94
e-mail: turkiye@tele-radio.com

TELE RADIO LTD

England
Tel. +44 (0) 1625 509125
e-mail: england@tele-radio.com

TELE RADIO LLC

North America & Latin America
Tel. +1 (305) 459 0763
e-mail: america@tele-radio.com

TELE RADIO BV

Benelux
Tel. +31-(0)70-419 41 20
e-mail: benelux@tele-radio.com

TELE RADIO AS

Norway
Tel. +47-6933 4900
e-mail: norge@tele-radio.com



Preserving the Tiger
around the world

ISO 9001:2000