EN

TERA Radon Program

TCREX Extended Memory and IP Access Point for TCR Terminal

Technical Specifications & Operation Manual

v.1 - 2018

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1 Introduction

This document describes technical specifications and user operation of the TCREX Extended Memory and IP Access Point for TCR Terminal.

Product was developed and manufactured in the Czech Republic. Offer or delivery of products or services related to the product does not include transfer of ownership rights.

Before using the product, please read this manual carefully and understand all operating and safety precautions. Compliance with operational and safety precaution can prevent from damage to equipment or injuries to personnel. Operating and safety instructions in the document are marked as follows:

Attention! This formatted text indicates the operating and safety instructions.

The product may only be used in the specified manner and for its intended purpose. The product may be provided to third persons along with this documentation only.

2 Description and Utilization

TCREX is designed for radical extension of TCR terminal memory capacity and for possibility to connect TCR wireless terminal into LAN network or into internet for remote control.

TCREX is connected to the TCR terminal via USB cable. TCREX needs permanent powering via power adapter 230VAC/5VDC. Over USB cable the TCR terminal is permanent charged from TCREX then as well. Backup (download) terminal memory data via USB is running periodically every 12 hours. TCREX memory capacity is higher than 2 years of hourly records from 16 probes in terminal wireless network.

TCREX data viewing and downloading is possible to realize by connected PC with installed some internet browser (Google Chrome, Mozilla Firefox, etc.). PC is connected with TCREX by UTP cable. TCREX includes internal web server which sends web pages with results over UTP cable to your internet browser. Web pages are in English or Czech. So there isn´t necessary to install any special application for control of TCREX and there is possible to use various operation system (OS) of PC. Saved data in PC is possible to export to files with extension .TAB for further processing in any text editor and in any spreadsheets. For easy graphical display and advance analyze of .TAB files can also use the program Radonview see „ ccessories“.

***Attention!** Via TCREX isn´t possible to configure and diagnose wireless network of TCR terminal. Via TCREX is only possible to view and download long-term measured data from wireless network of TCR terminal. Configuration and diagnostics of wireless network of TCR terminal is necessary to do by special PC application for TCR terminal.*

TCREX data viewing and downloading can be operated by these 2 ways:

A) **Standalone solution** - TCREX is only powered and connected with TCR terminal (Central unit) during long-term radon measurement (fig.1). TCREX permanently download data from terminal to its flash memory. This solution is used in cases of internet absence and in cases of long term measurement. The data are then downloaded from TCREX to PC after end of the measurement. It is possible to download data directly on measurement spot (fig.2) or later after switch off and disconnecting of measurement net (fig.3).

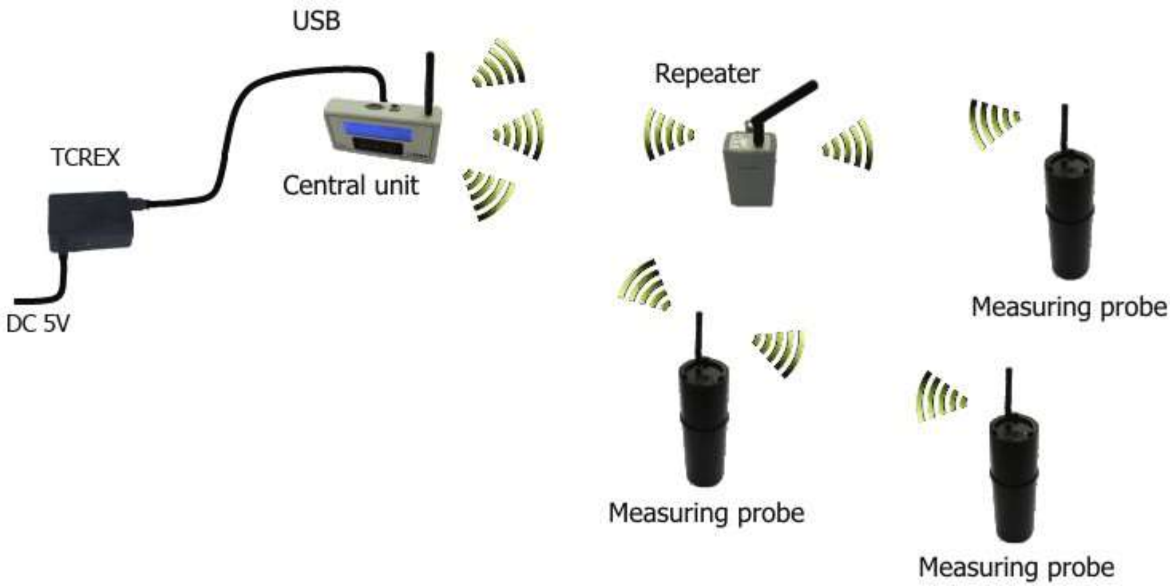

fig.1 - Standalone solution - Example of measurement with TCREX

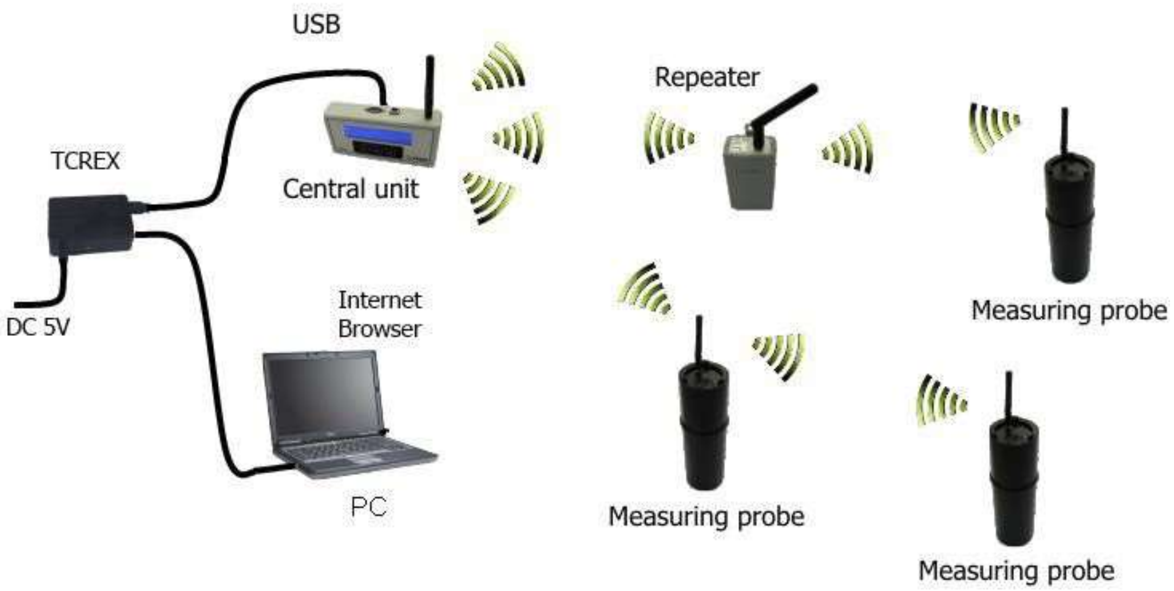

fig.2 - Standalone solution - Downloading data from TCREX on measuring spot.

fig.3 - Standalone solution - Downloading data from TCREX separately after switch off and disconnecting of measuring net.

B) **Remote control solution** - TCREX is powered and connected with TCR terminal (Central unit) and connected also to LAN network (router) or INTERNET network (router + modem) (fig.4). Viewing and downloading data is possible to do remotely by PC connected in LAN network or in Internet.

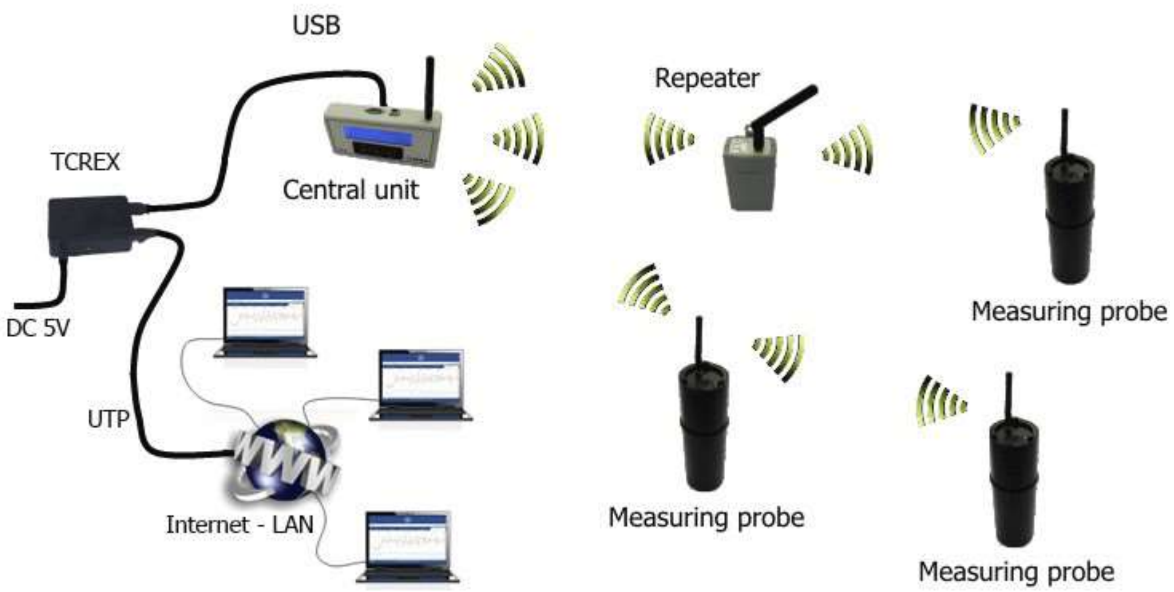

fig.4 - Remote control solution - Principle of TCREX remote control.

3 Scope of Delivery

- TCREX Extended Memory and IP Access Point for TCR Terminal
- Power adapter 230VAC/5VDC
- UTP cable 1m
- Operation Manual

4 Product Specification

Product	TCREX Extended Memory and IP Access Point for TCR Terminal
Type symbol	042 127 204 000
Memory capacity	> 2 years for terminal with 16 radon probes and hourly records
Backup of terminal	Every 12h;
IP interface	Ethernet 10/100 Base-T (RJ45)
USB interface	USB 2.0
Powering	Power adapter 230VAC/5VDC or PoE splitter
Access protocol	HTTPS, WEB interface, IPv.4
Recommended internet browsers	Google Chrome, Mozilla Firefox
Languages	English, Czech
Environment	For indoor use only
Dimension	95 x 65 x 35 mm