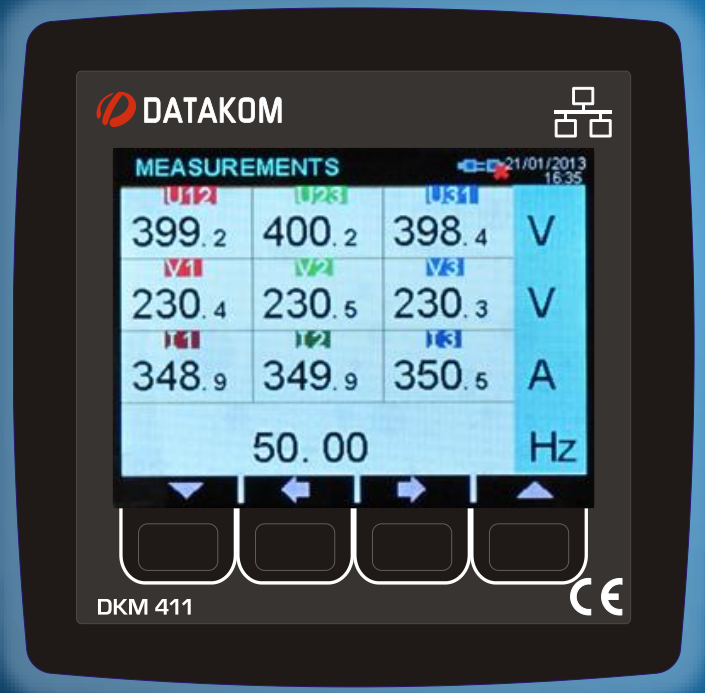
DATAKOM

DKM-411 ENERGY ANALYSER AND REMOTE MONITORING SYSTEM

TOMORROW'S TECHNOLOGY AVAILABLE TODAY

MEASUREMENT ACCURACY : 0.2 %

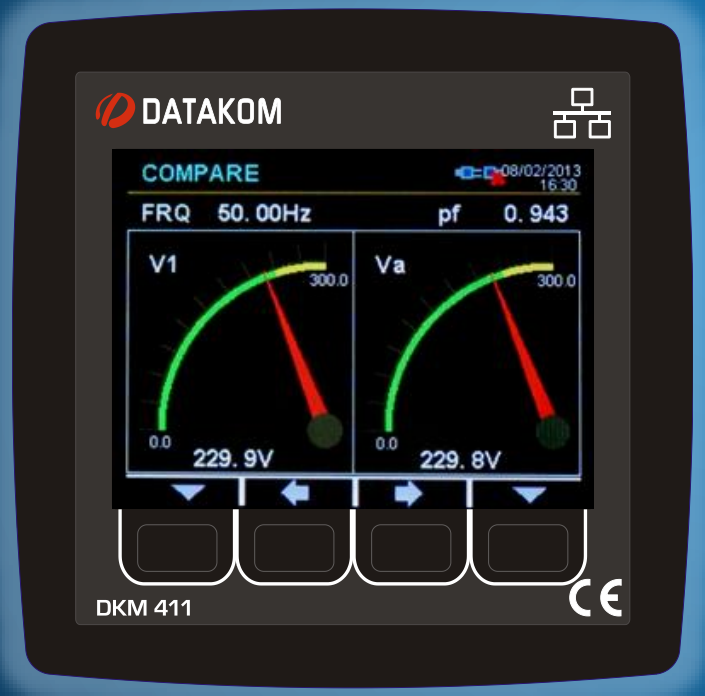


VOLTAGE	% 0.2
CURRENT	% 0.2
FREQUENCY	% 0.1
kW-kVAr	% 0.4
cos ϕ	% 0.2

EASY TO READ WITH COLOR GRAPHIC SCREEN

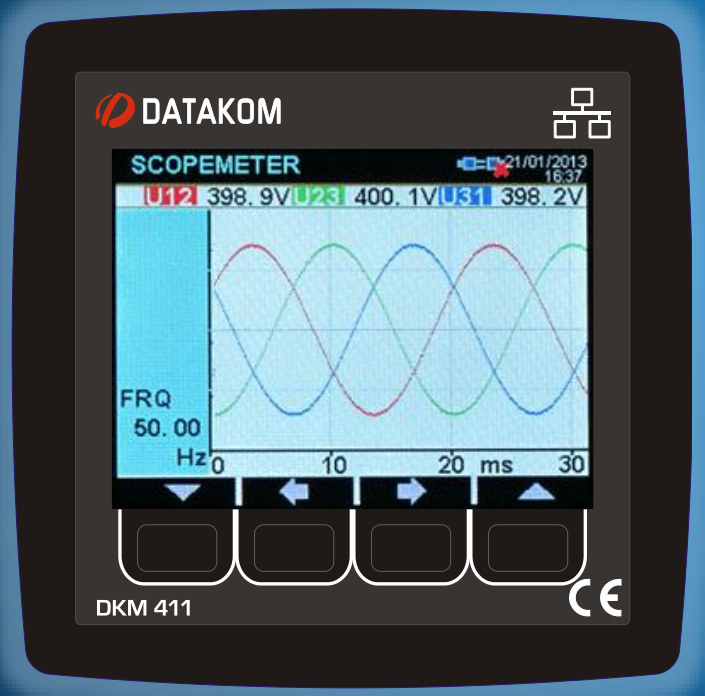
- 3.5’’ TFT DISPLAY
- 320 x 240 PIXEL
- 65536 COLORS

ANALOG DISPLAYS



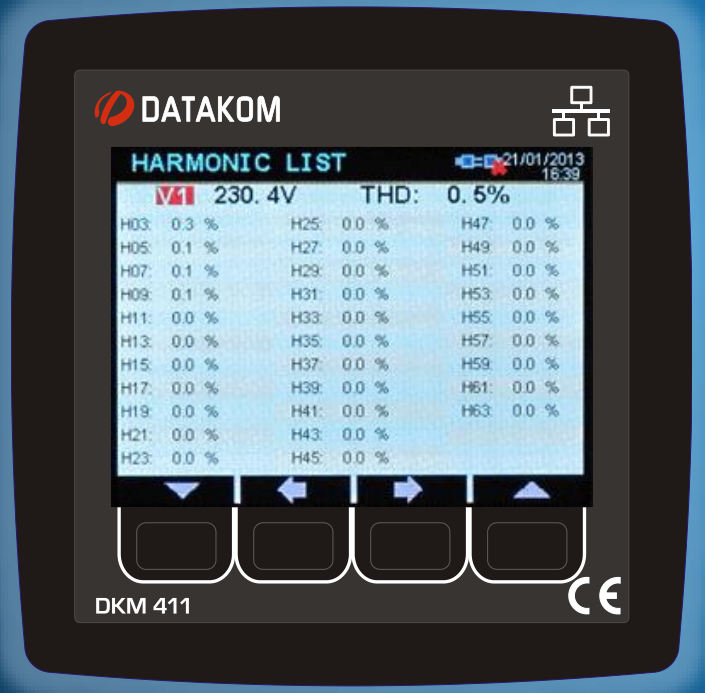
- READ AT A GLANCE

WAVEFORM DISPLAYS



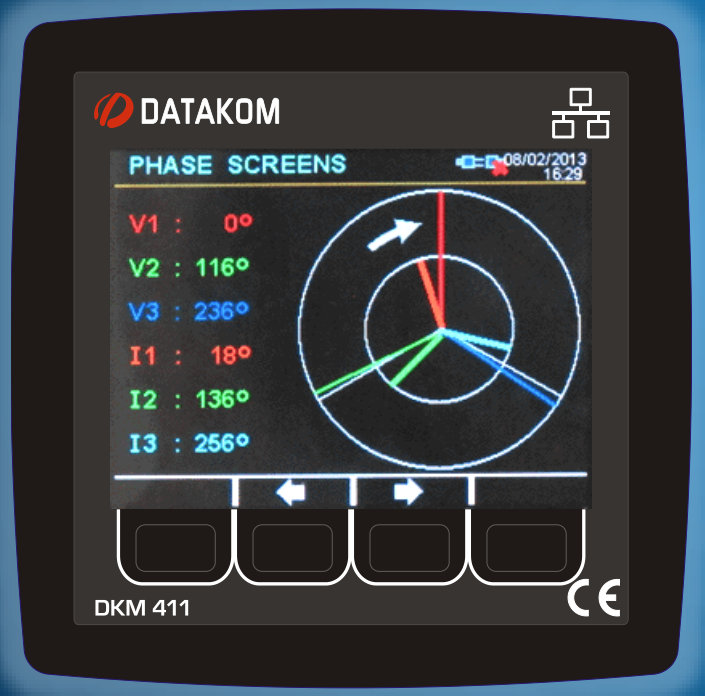
- ALL VOLTAGE & CURRENT WAVEFORMS CAN BE VISUALIZED

HARMONIC ANALYSIS



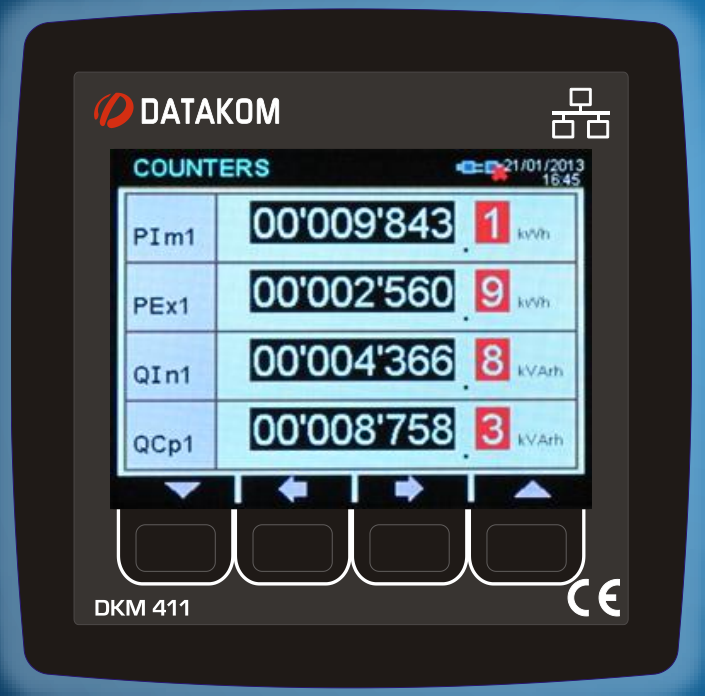
- ALL VOLTAGE & CURRENT INPUTS ARE ANALYZED

PHASOR DIAGRAM



- ALL VOLTAGE & CURRENT PHASE ANGLES AT A GLANCE

DETAILED ENERGY COUNTERS

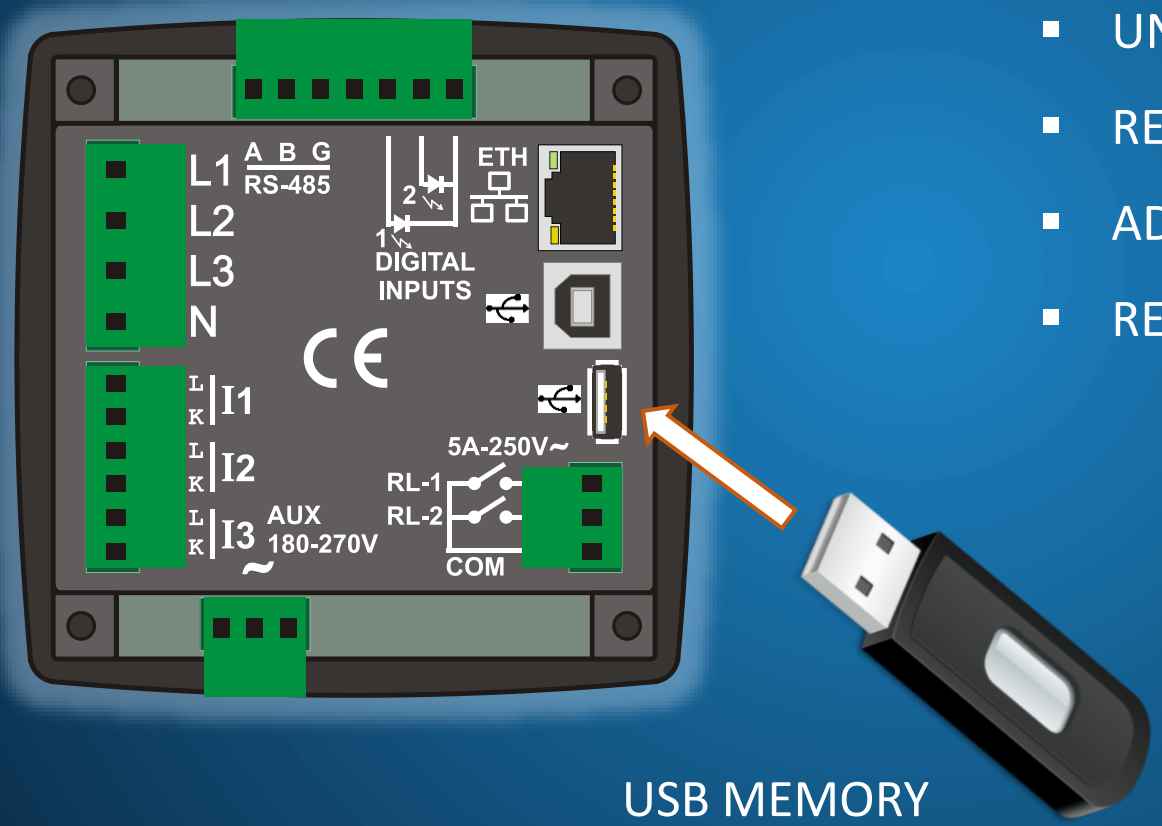


- IMPORT ACTIVE POWER
- EXPORT ACTIVE POWER
- INDUCTIVE REACTIVE POWER
- CAPACITIVE REACTIVE POWER
- INPUT PULSE COUNTERS
- BOTH MAINS AND GENSET

USER CONFIGURABLE SCREENS

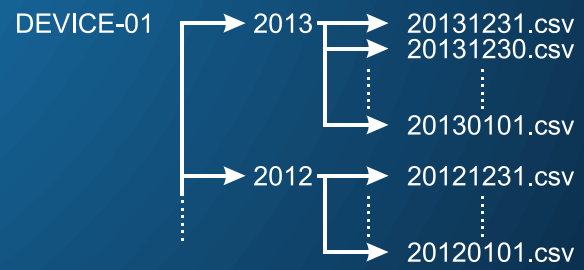
- 4 USER CONFIGURABLE SCREENS
- SELECTABLE CHARACTER SIZES
- MAX 24 VALUES ON ONE SCREEN

LONG TERM DATA RECORDING



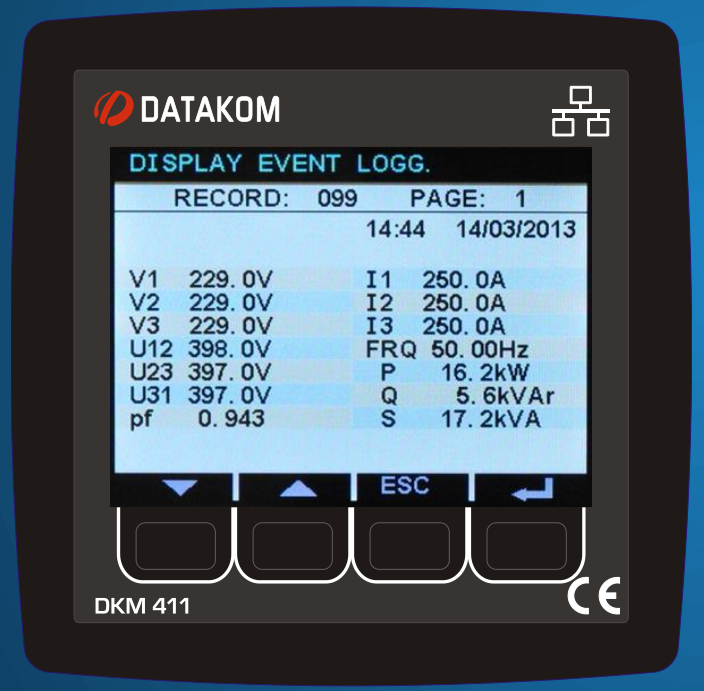
USB MEMORY

- UNLIMITED USB MEMORY CAPACITY
- RECORDS DATA IN EXCEL FORMAT
- ADJUSTABLE RECORD PERIOD
- RECORDS ALL MEASUREMENTS



DATAKOM

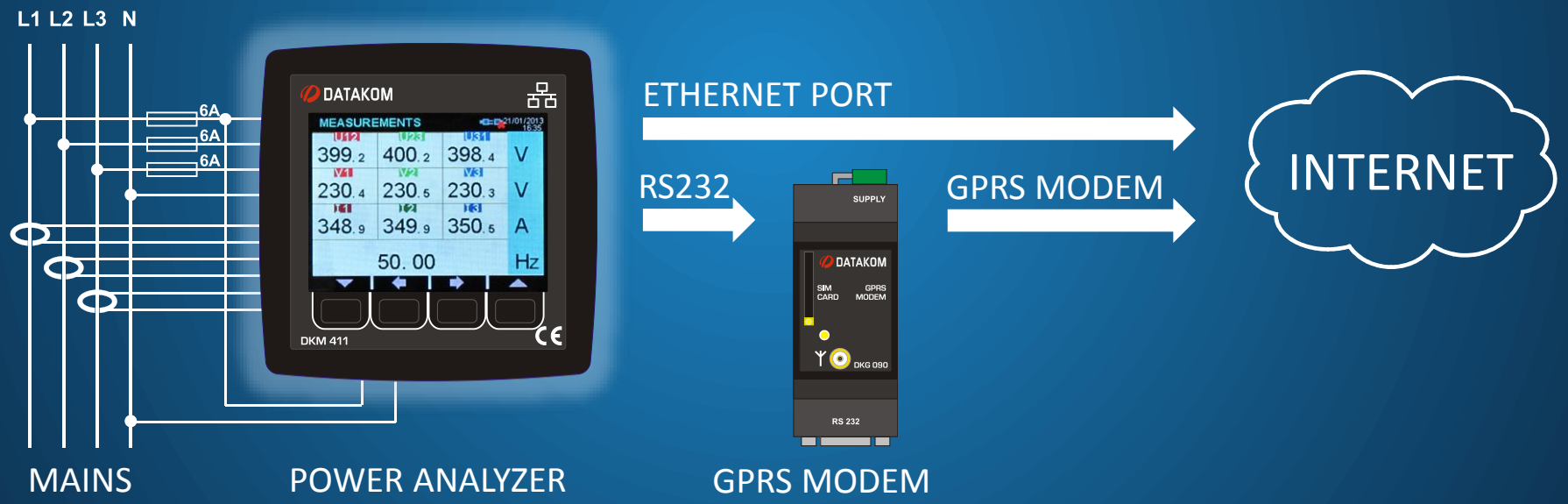
250 EVENT RECORDS



- WITH DATE & TIME STAMP
- WITH SNAPSHOT OF MEASUREMENTS
- EVENTS DOWNLOADABLE TO COMPUTER

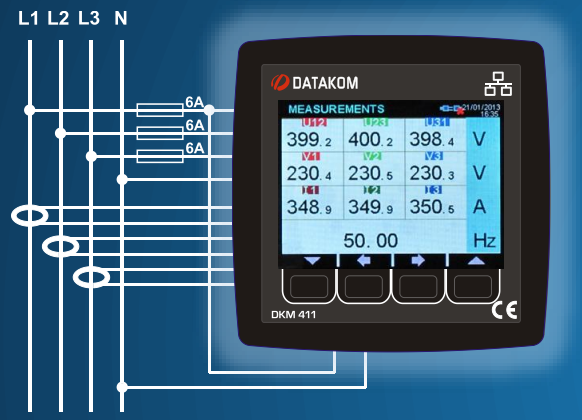
INTERNET COMMUNICATIONS

LAN + GPRS CONNECTIVITY



DATAKOM

INTERNET COMMUNICATIONS

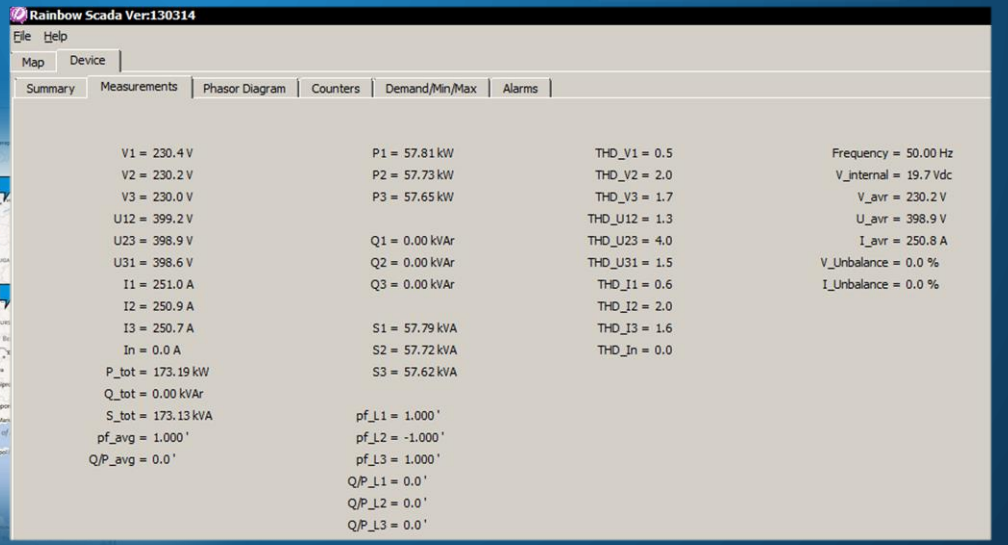


MAINS

POWER ANALYZER

INTERNET

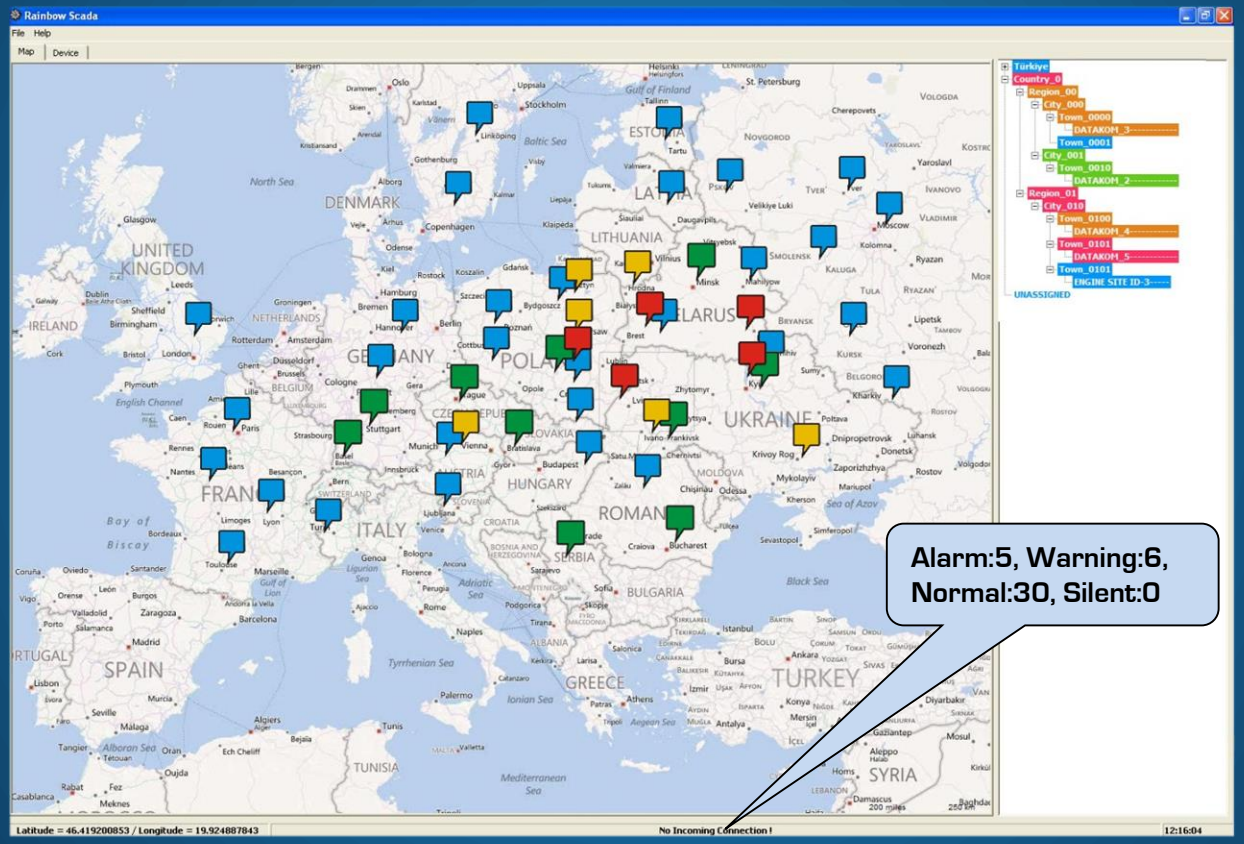
RAINBOW SCADA SERVER



MONITORING SOFTWARE

DATAKOM

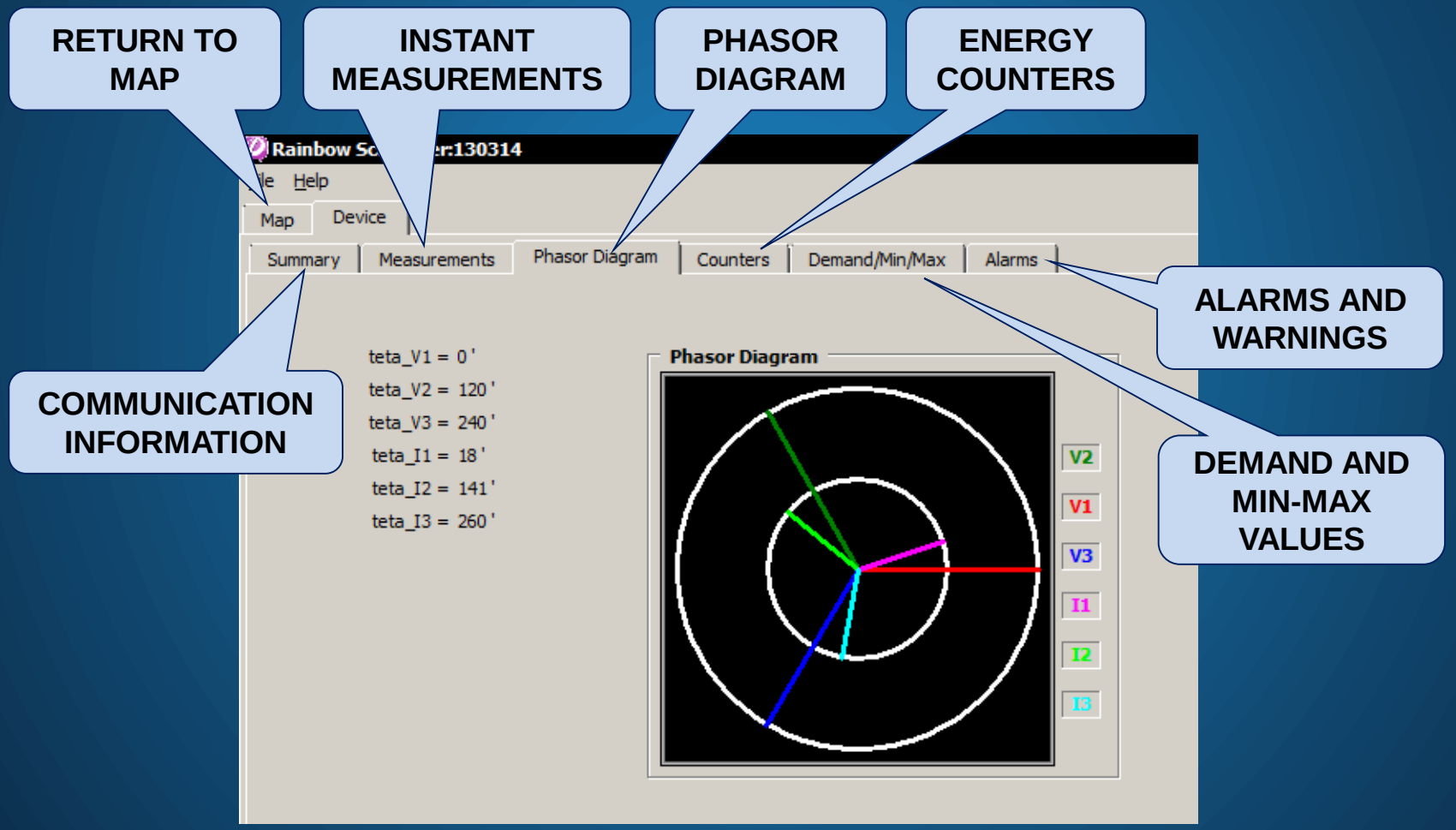
DISPLAYING 60'000 UNITS ON ONE SCREEN



ALARM WARNING SILENT RUNNING REST

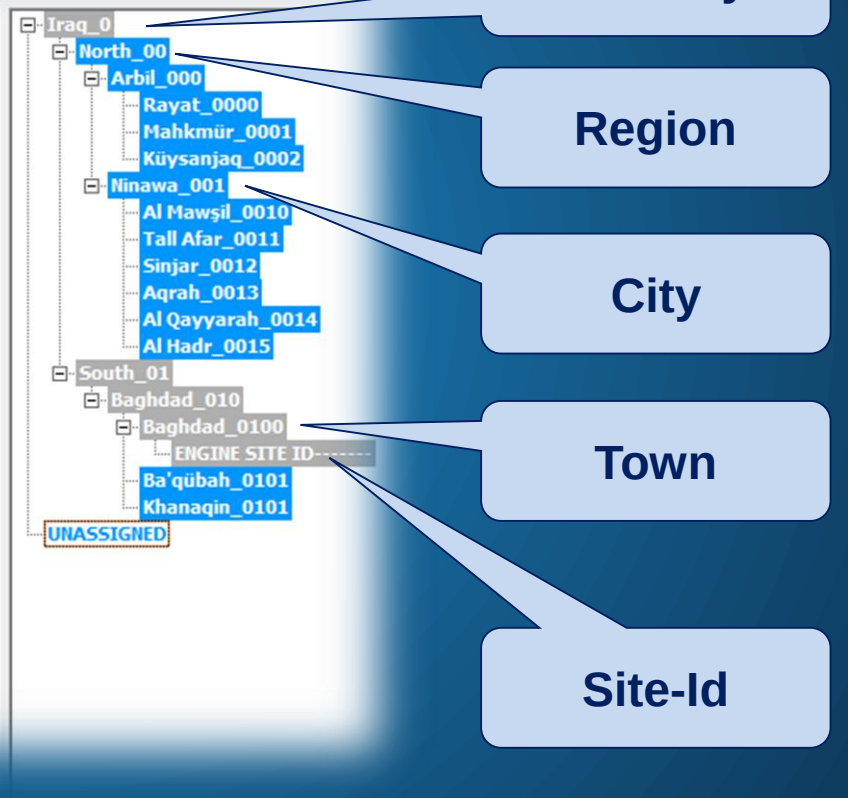
DATAKOM

DETAILED MONITORING



DATAKOM

GROUPING OF CENTERS



Country

Region

City

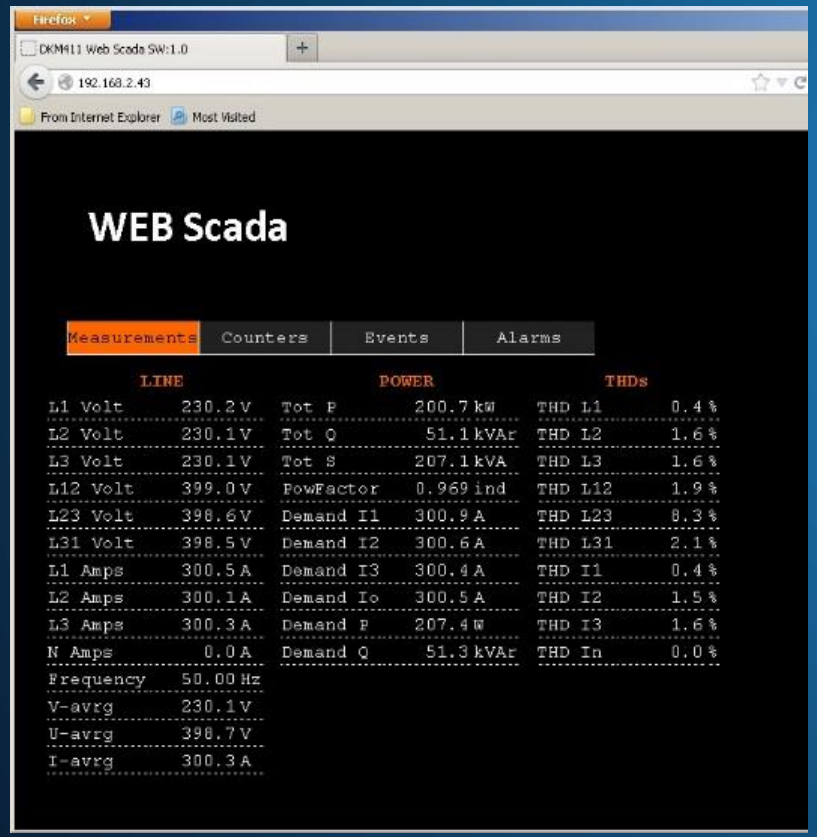
Town

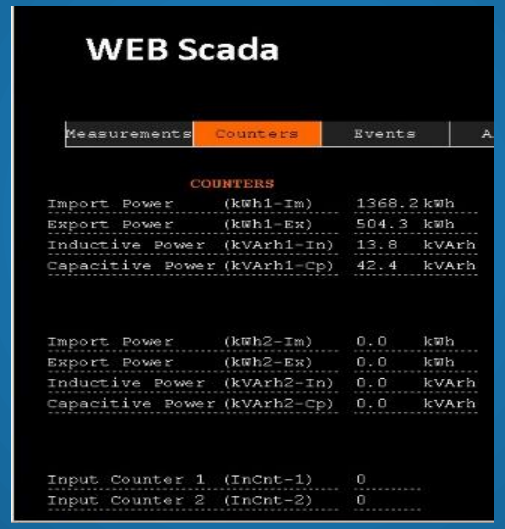
Site-Id

DATAKOM

EMBEDDED WEBSITE

REACH THE UNIT FROM ANYWHERE IN THE WORLD WITH A WEB BROWSER



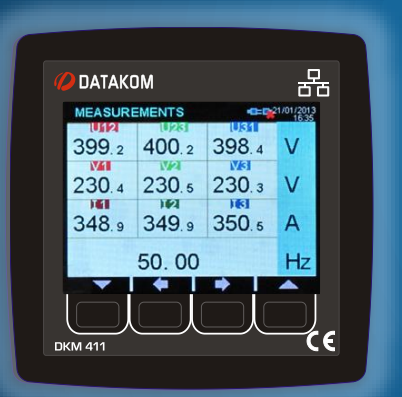


- INSTANT MEASUREMENTS
- POWER COUNTERS
- EVENT RECORDS
- ALARMS AND WARNINGS

DATAKOM

E-MAIL SENDING ON FAULT

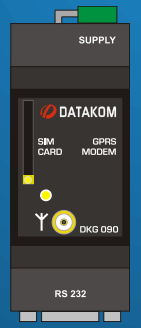
BE AWARE OF FAULTS ANYTIME



POWER ANALYZER

ETHERNET PORT

RS232



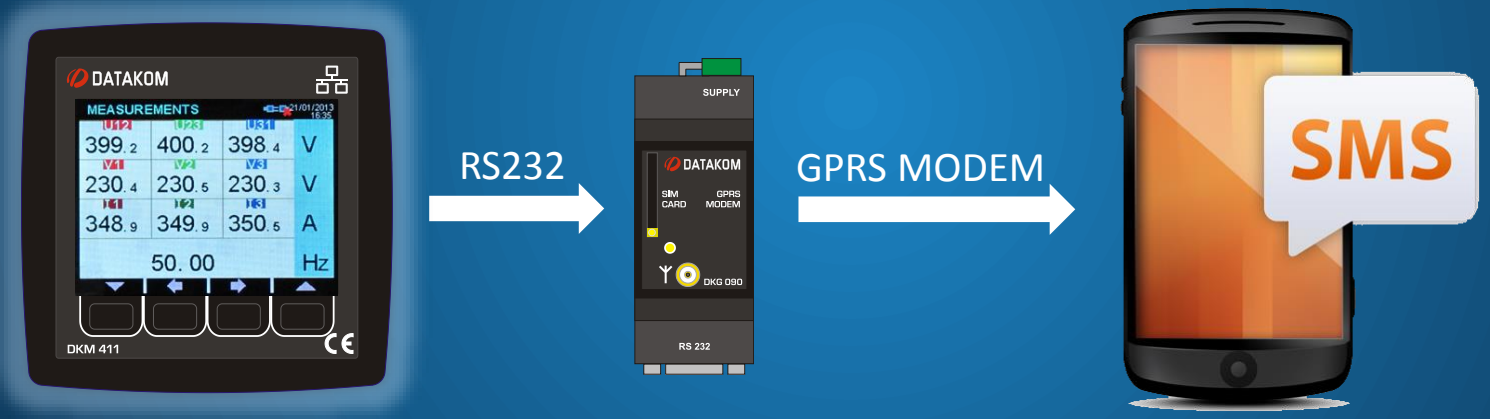
GPRS MODEM

GPRS MODEM

DATAKOM

SMS SENDING ON FAULT

BE AWARE OF FAULTS ANYTIME - ANYWHERE



POWER ANALYZER

GPRS MODEM

DATAKOM

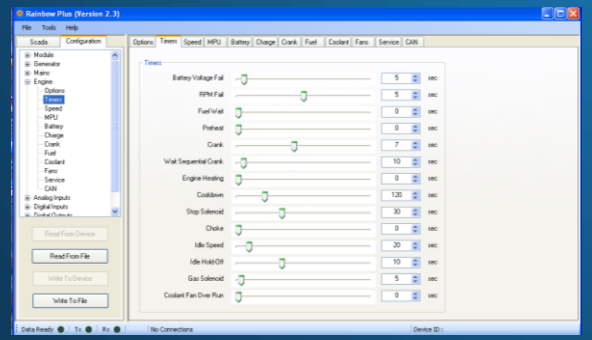
REMOTE PARAMETER SETTING

MANAGE YOUR SITE FROM YOUR DESK !

RAINBOW SCADA SERVER

INTERNET

POWER ANALYZER

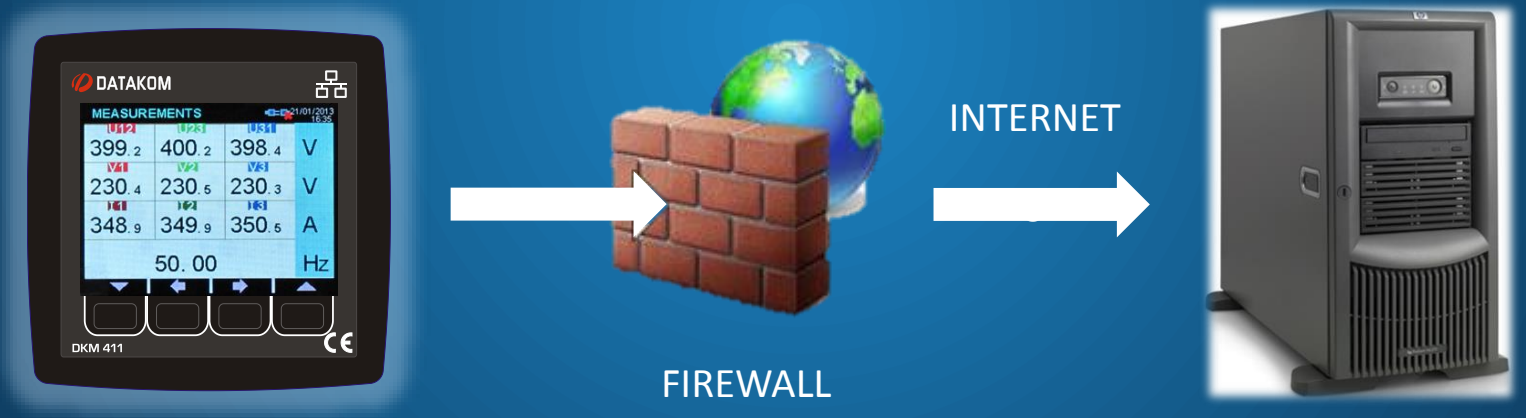


RAINBOW PLUS SOFTWARE

DATAKOM

DATA SECURITY

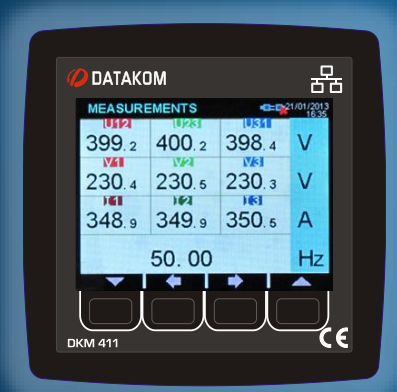
DATA IS SENT TO YOUR CONTROL CENTER ONLY !



NOBODY CAN REACH YOUR DEVICE BEHIND FIREWALL !

EASY INSTALLATION

ANALYZERS CAN WORK WITH **LOCAL IP** THROUGH **LAN**



LOCAL IP

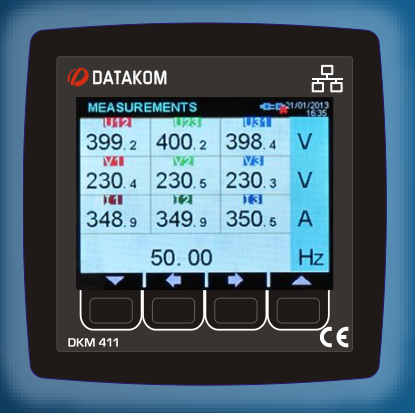
INTERNET

RAINBOW SCADA SERVER

- NO STATIC IP REQUIRED !
- NO ADDITIONAL DATA SERVER REQUIRED !

COST EFFECTIVE

TRANSMIT DATA WITH LESS COST !



RAINBOW SCADA SERVER

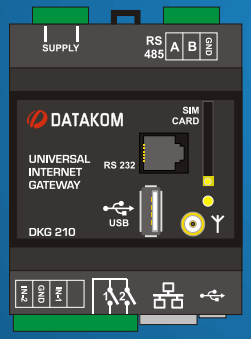
- THE DEVICE SENDS IP PACKETS TO THE DATA CENTER
- ALL INFORMATION IS SENT WITH A SINGLE DATA PACKET
- NO NEED TO QUERRY THE UNIT FROM THE DATA CENTER !

INTEGRAL APPROACH

INTEGRATE THIRD PARTY PRODUCTS IN THE SAME NETWORK

3rd PARTY PRODUCT

MODBUS



DKG-210 UNIVERSAL INTERNET GATEWAY

INTERNET

RAINBOW SCADA SERVER

DATAKOM

AUXILIARY CONTROL RELAY OUTPUTS

CONTROL YOUR REMOTE STATION VIA DKM-411

RAINBOW SCADA SUNUCU

INTERNET

POWER ANALYZER

AUXILIARY DEVICE

AUXILIARY DEVICE

DATAKOM

IMMEDIATE FAULT DETECTION

REDUCE DOWN TIME WITH FASTER INTERVENTION

YES !

NO !

DATAKOM

USE LESS MANPOWER FOR SERVICING

AVOID UNNECESSARY SITE VISITS

NO !

YES !

ADVANTAGES

- ACCURATE AND DETAILED MEASUREMENTS
- HIGH READABILITY
- LONG TERM DATA RECORDING
- INTERNET MONITORING
- 2 YEARS FREE REMOTE MONITORING
- GENERATE ALERTS BEFORE THEY BECOME EMERGENCIES
- IMMEDIATE FAULT DETECTION
- REDUCE YOUR DOWN TIME WITH FASTER INTERVENTION
- AVOID UNNECESSARY SITE VISITS
- LESS POWER FAILURE, BETTER POWER QUALITY
- SECURE DATA FLOW
- INTEGRATE THIRD PARTY PRODUCTS IN THE SAME NETWORK
- CONTROL YOUR ENTIRE REMOTE STATION VIA DKM-411