DATAKOM

D-300

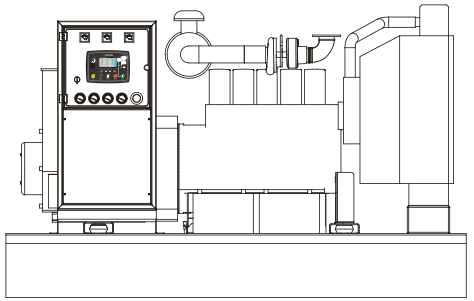
INTERNET ENABLED GENSET CONTROLLER

DATAKOM

MULTIFUNCTIONAL

THE SAME UNIT IS A ...

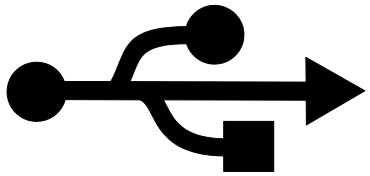
- ❑ AMF UNIT
- ❑ ATS CONTROLLER
- ❑ REMOTE START CONTROLLER
- ❑ ENGINE CONTROLLER
- ❑ REMOTE DISPLAY UNIT



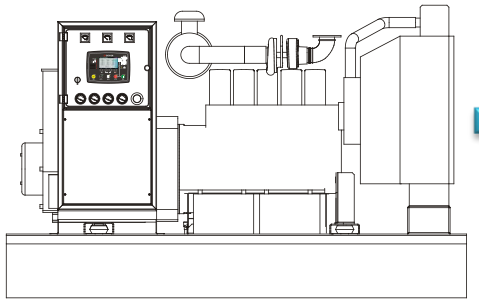
REDUCE YOUR STOCK ITEMS !

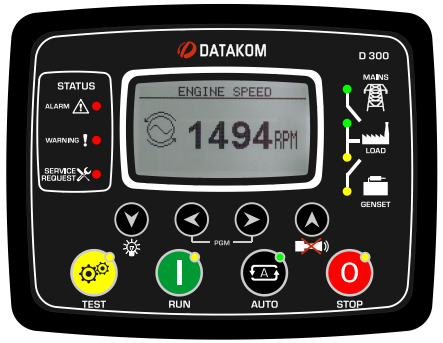
DATAKOM

EASY PROGRAMMING



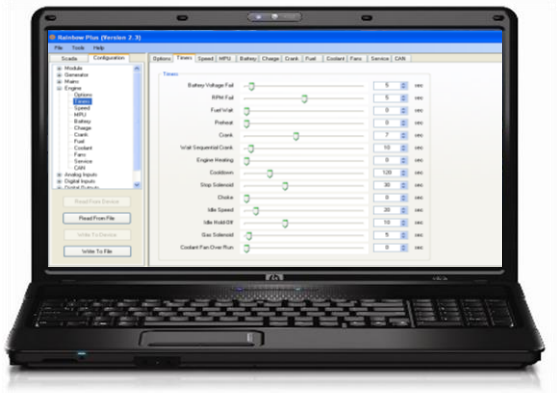
- ❑ EASY TO USE PC CONFIGURATION PROGRAM: RAINBOW PLUS
- ❑ PC PROGRAM CONNECTS THROUGH USB + RS232
- ❑ REMOTE PARAMETER SETTING THROUGH INTERNET
- ❑ ALL PARAMETERS FRONT PANEL ADJUSTABLE
- ❑ DETAILED TRAINING MATERIAL





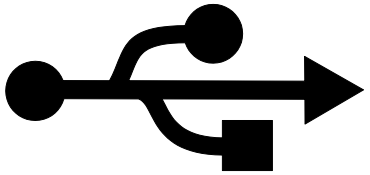
USB

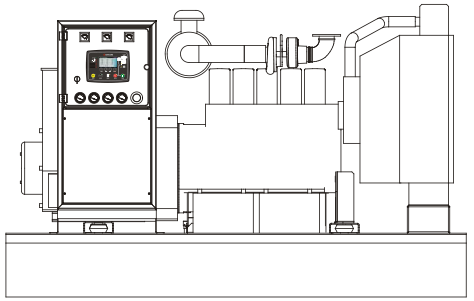
RS-232



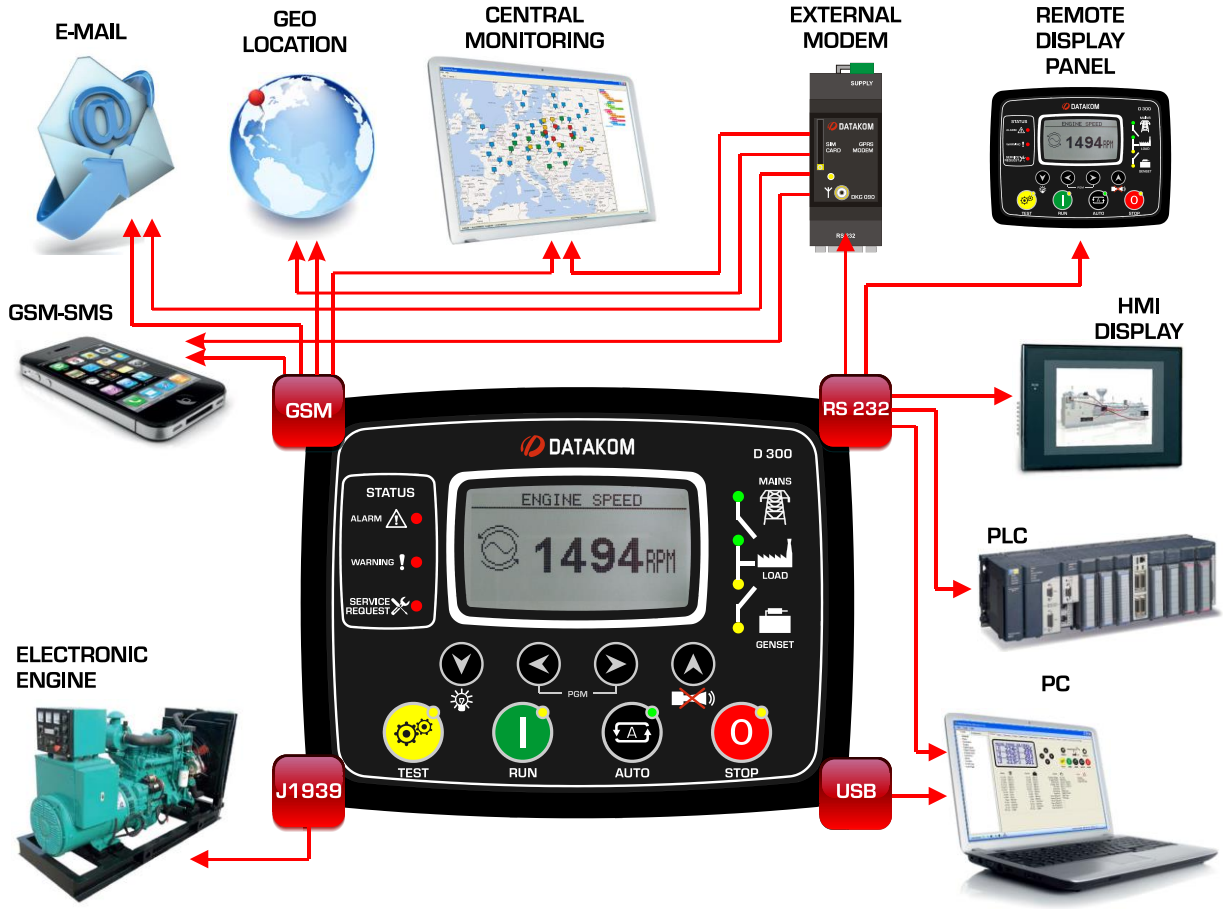
DATA PORTS

- INTERNAL GPRS MODEM
- RS-232 (MODBUS RTU, GPS, EXTERNAL MODEM)
- USB DEVICE (PC CONNECTION)

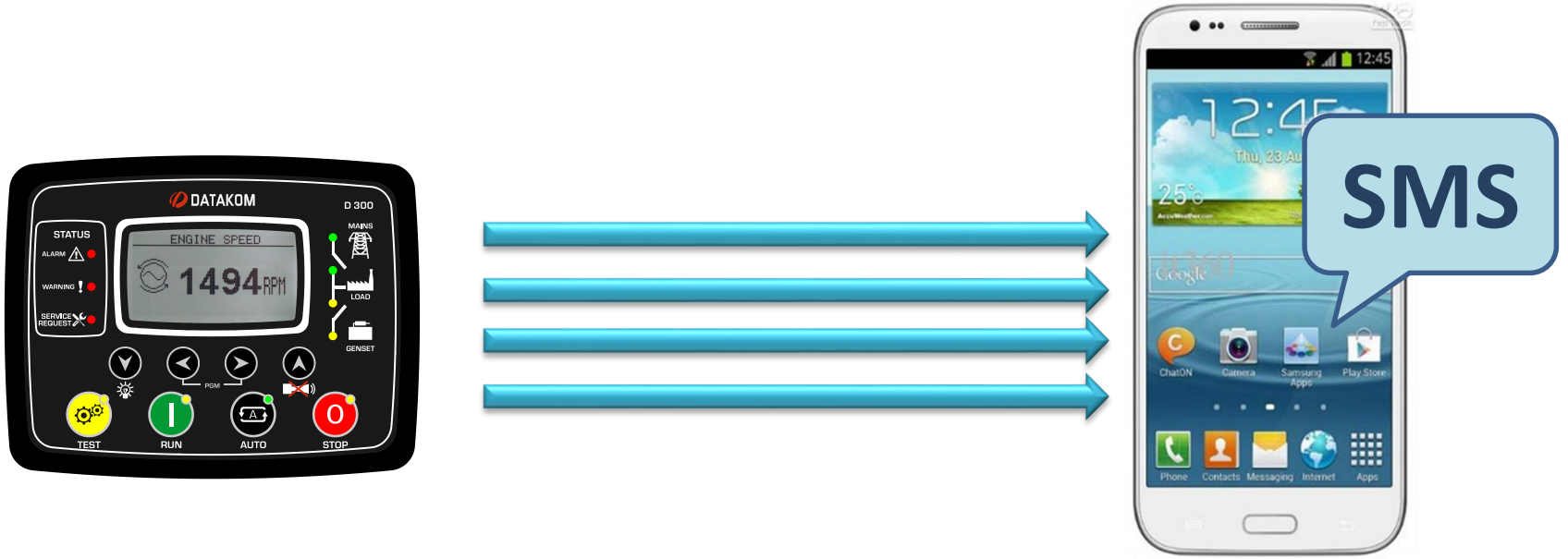




CONNECTION CAPABILITIES



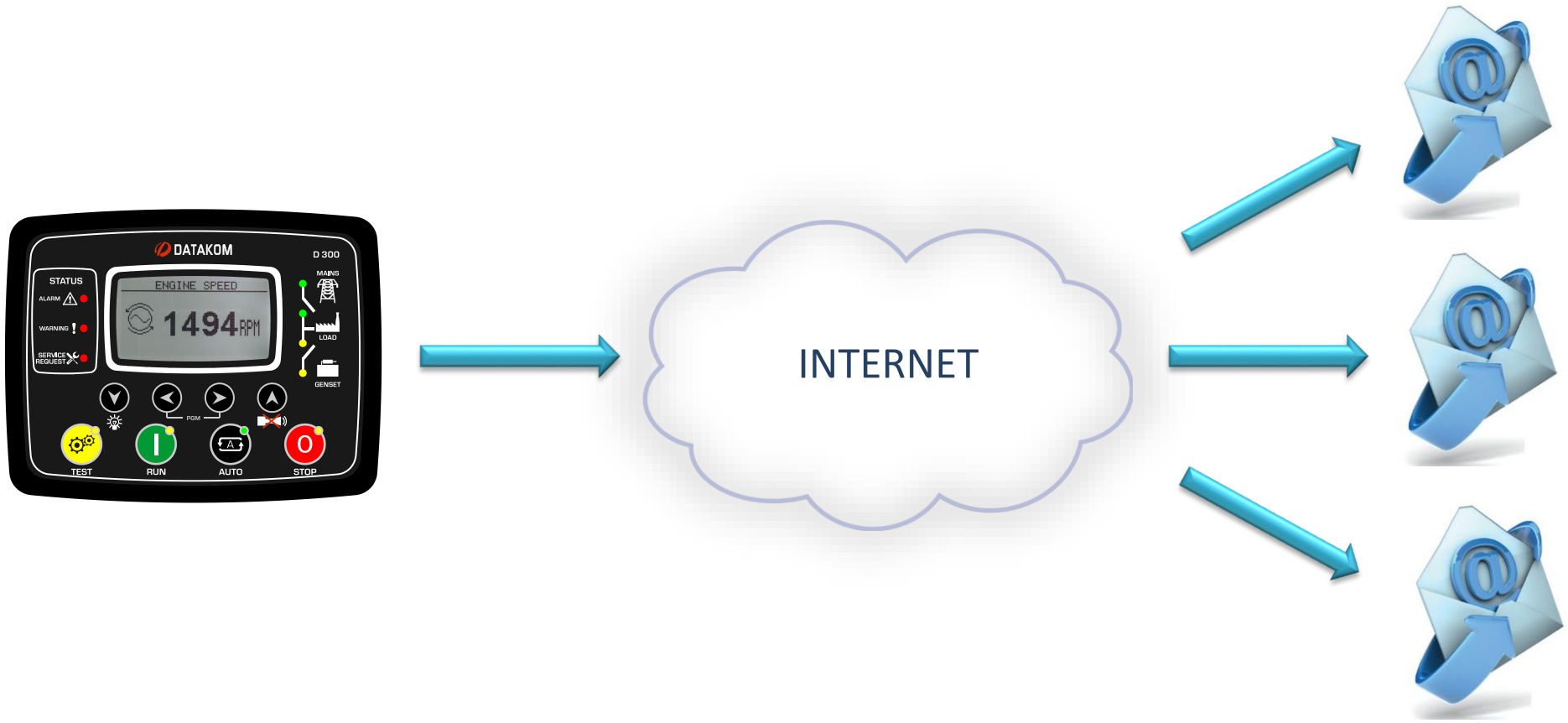
SMS SENDING



UP TO 4 DIFFERENT PHONE NUMBERS ALLOWED

DATAKOM

E-MAIL SENDING



UP TO 3 DIFFERENT E-MAIL ADDRESSES ALLOWED

DATAKOM

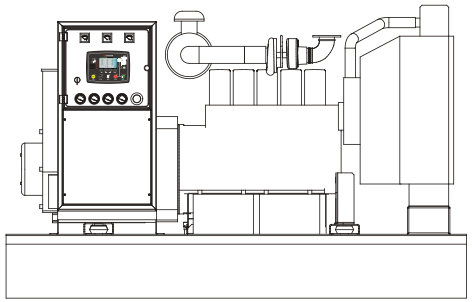
INTERNET FEATURES

INTERNET

- PARAMETER SETTING THROUGH INTERNET
- CENTRAL MONITORING THROUGH INTERNET
- E-MAIL SENDING

REMOTE MONITORING

CONTROLLER



GENERATOR

INTERNET

RAINBOW SCADA SERVER

ANY WEB BROWSER

SMART PHONE

DATAKOM

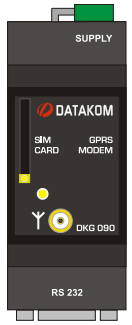
INTERNET CONNECTION

CONTROLLER

INTERNAL GPRS MODEM

OR

RS 232



GPRS MODEM

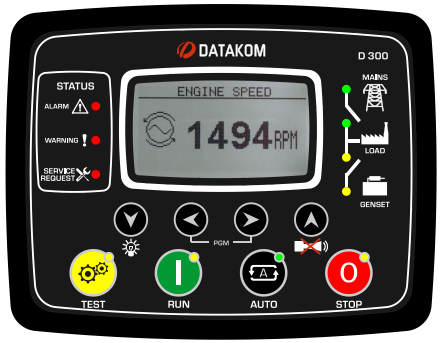
GPRS MODEM

INTERNET

DATAKOM

EASY INSTALLATION - GPRS

GPRS CONNECTION SUPPORTS **DYNAMIC IP** AND **LOCAL IP** !



CONTROLLER

GPRS MODEM

RS 232

DKG 090

GPRS MODEM

RAINBOW SCADA SERVER

- NO **REAL IP** REQUIRED
- NO **STATIC IP** REQUIRED
- NO DATA SERVER REQUIRED
- PLUG & PLAY WITH ANY DATA SIM CARD

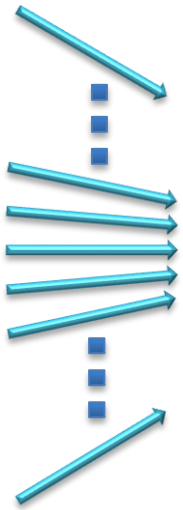
DATAKOM

RAINBOW SCADA PROGRAM

PROGRAM RUNS ON SERVER

ANY WEB BROWSER

INTERNET



ACTIVE CONNECTIONS

RAINBOW SCADA SERVER

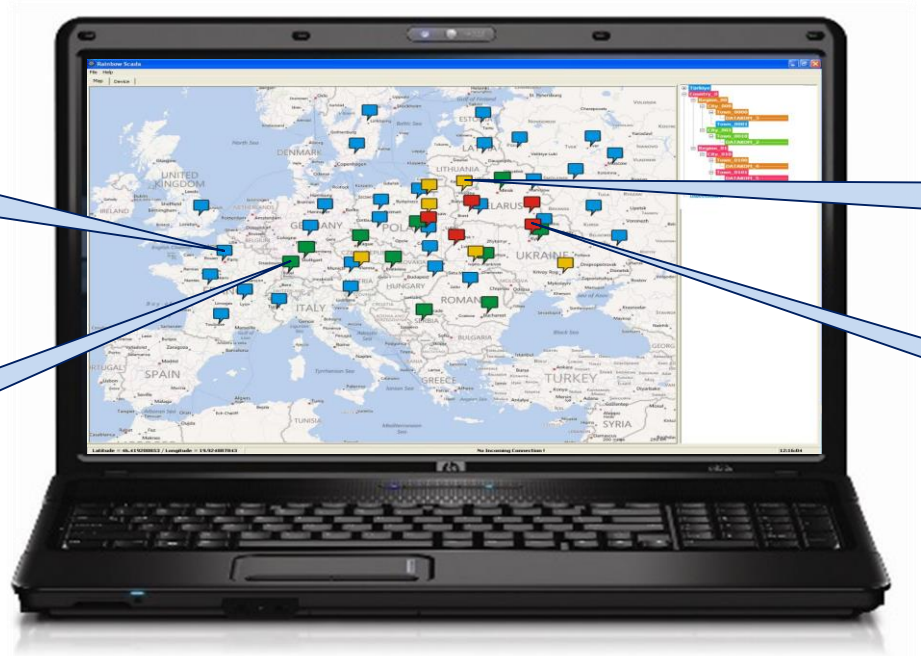
SMART PHONE

RAINBOW SCADA SERVER SUPPORTS 60’000 ACTIVE CONNECTIONS

DATAKOM

CHART MODE DISPLAY

MONITOR YOUR COMPLETE FLEET ON ONE SCREEN



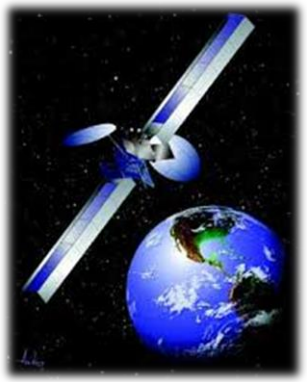
ALARM WARNING SILENT RUNNING REST

THE COLOUR OF THE BOX SHOWS DEVICE STATUS !

DATAKOM

MOBILE GENSET SUPPORT

CONTROLLERS SHOWN AT TRUE COORDINATES WITH GPS SUPPORT



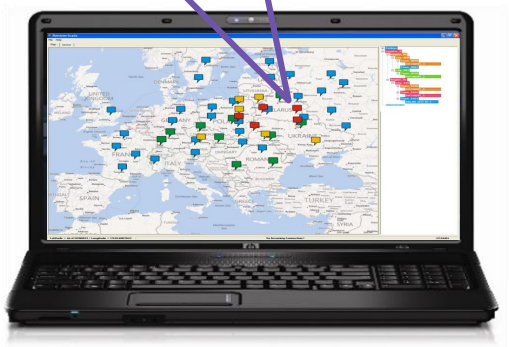
GPS
SATELLITE

CONTROLLER

INTERNET

RAINBOW SCADA
SERVER

SET LOCATION
ALARMS !



MONITOR YOUR MOBILE FLEET ON-LINE !

DATAKOM

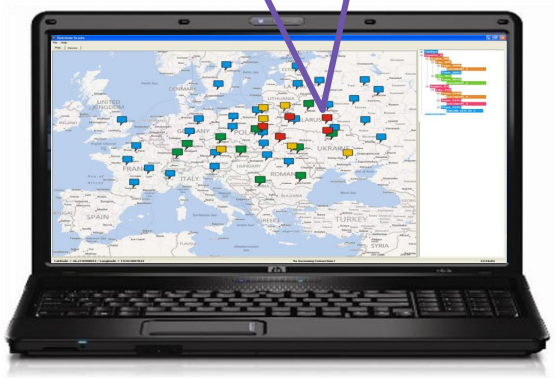
MOBILE GENSET SUPPORT

LOCATION DETERMINATION OVER GSM NETWORK

GSM

INTERNET

SET LOCATION ALARMS !



MOBILE GENSET

RAINBOW SCADA SERVER

ANY WEB BROWSER

MONITOR YOUR MOBILE FLEET ON-LINE !

DATAKOM

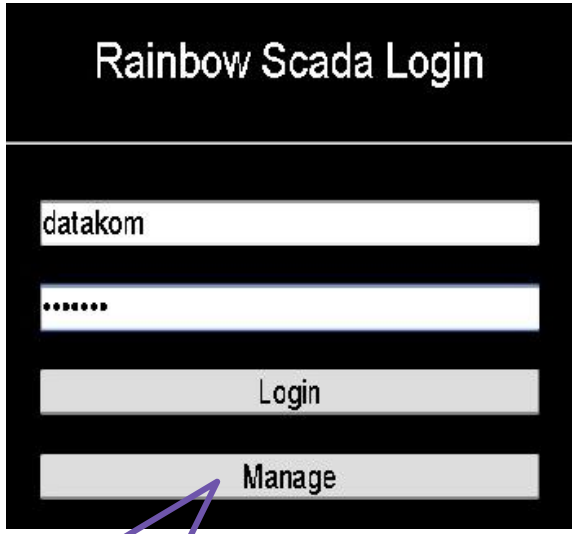
GROUPING OF GENSETS

TABLET PC & SMART PHONE SUPPORT

NO NEED TO DOWNLOAD APPS !

DATAKOM

CREATE YOUR OWN ACCOUNT



LOGIN AND USE «MANAGE» OPTION

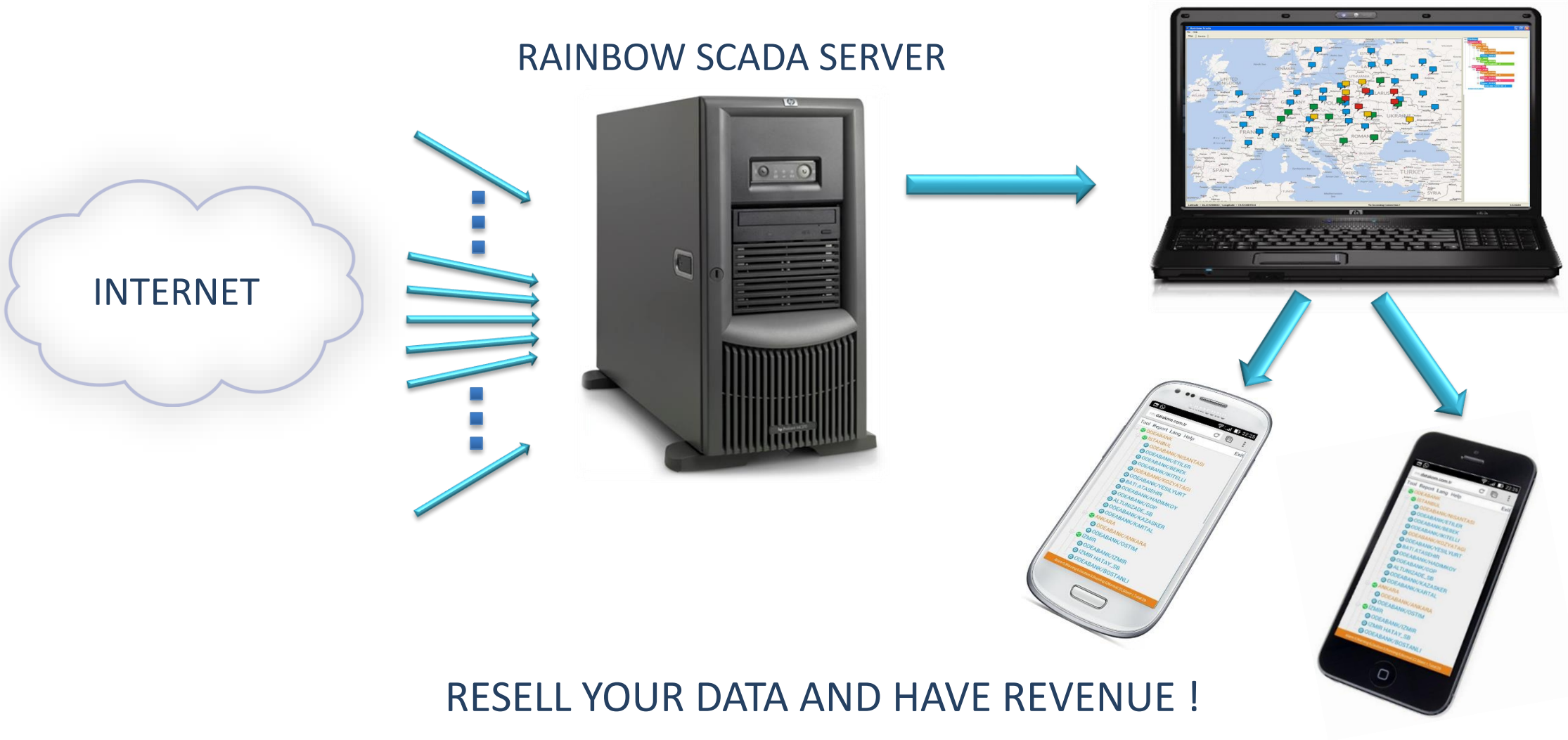
RAINBOW SCADA MANAGING SCREEN

NO NEED TO WAIT FOR SUPPORT

DATAKOM

CREATE YOUR OWN SUB_USERS

RAINBOW SCADA SERVER



RESELL YOUR DATA AND HAVE REVENUE !

DATAKOM

DATA SECURITY

DATA IS SENT TO RAINBOW SCADA SERVER ONLY !

CONTROLLER

LOCAL IP

FIREWALL

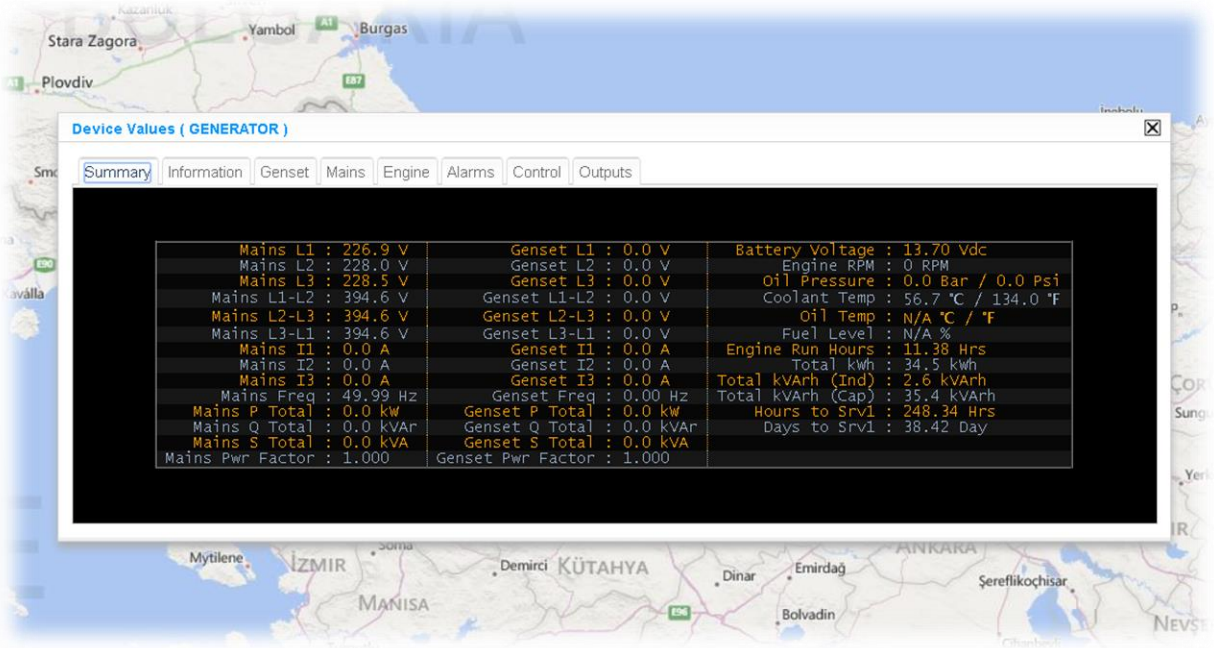
RAINBOW SCADA SERVER

NOBODY CAN REACH YOUR CONTROLLER !

DATAKOM

DETAIL MONITORING

MONITOR ONLINE & REAL TIME

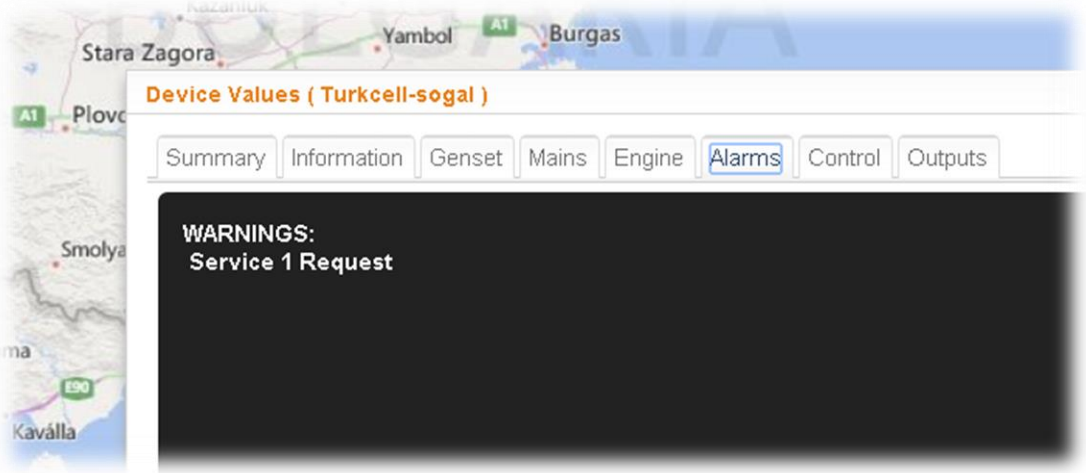


MONITOR WITH PC, TABLET OR SMARTPHONE

DATAKOM

REMOTE ALARM MONITORING

MONITOR ONLINE & REAL TIME

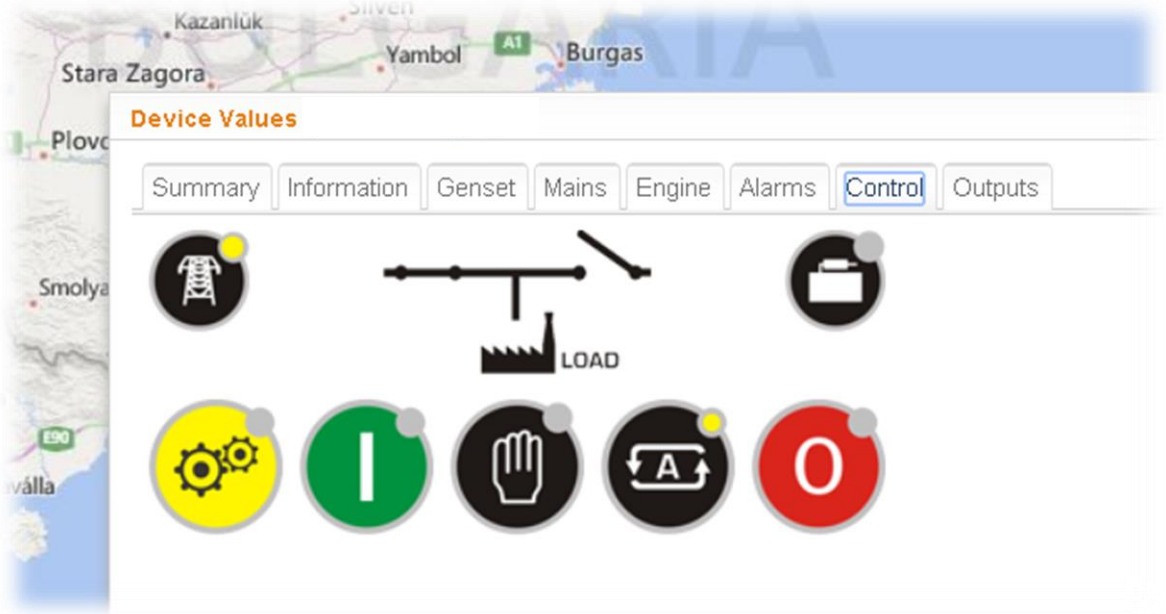


MONITOR WITH PC, TABLET OR SMARTPHONE

DATAKOM

REMOTE CONTROL & REMOTE FAULT RESET

RESET ALARMS ONLINE & REAL TIME

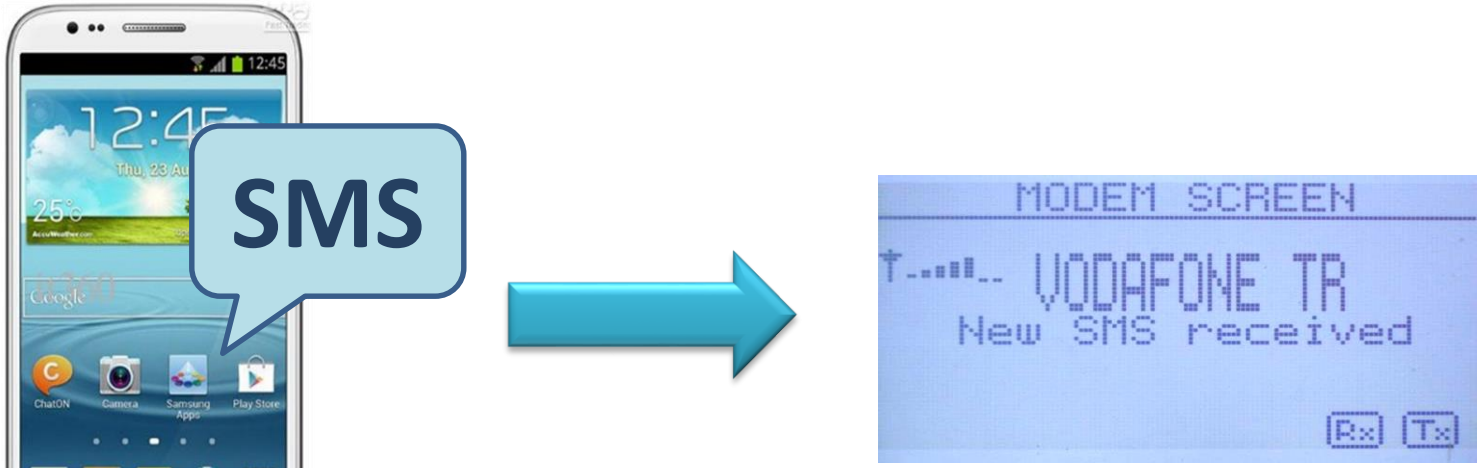


RESET ALARMS WITH PC, TABLET OR SMARTPHONE

DATAKOM

REMOTE FAULT RESET VIA SMS

YOUR CRITICAL SITE IS ALWAYS UP !



RESET ALARMS !

DATAKOM

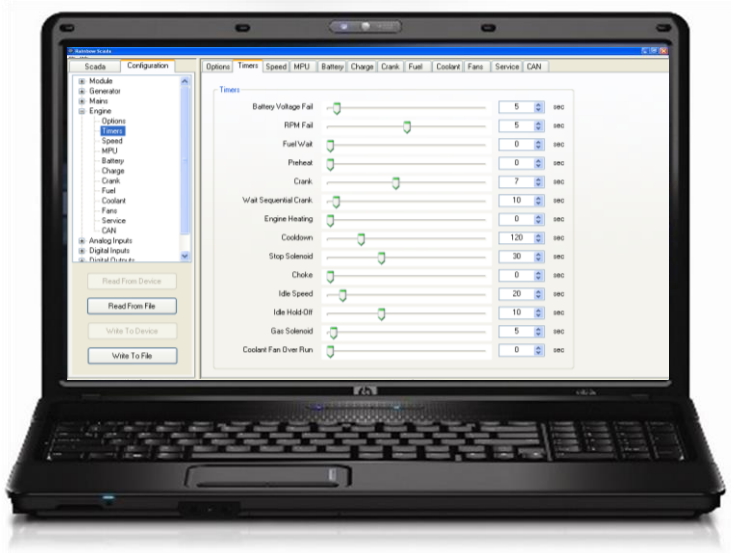
REMOTE PARAMETER EDIT

CONTROLLER

INTERNET

RAINBOW SCADA SERVER

RAINBOW PLUS PROGRAM



SAVE TIME AND SERVICE COST

DATAKOM

DATA ANALYSIS

PAST DATA IS STORED ON SERVER !

DATA CAN BE SAVED AS:

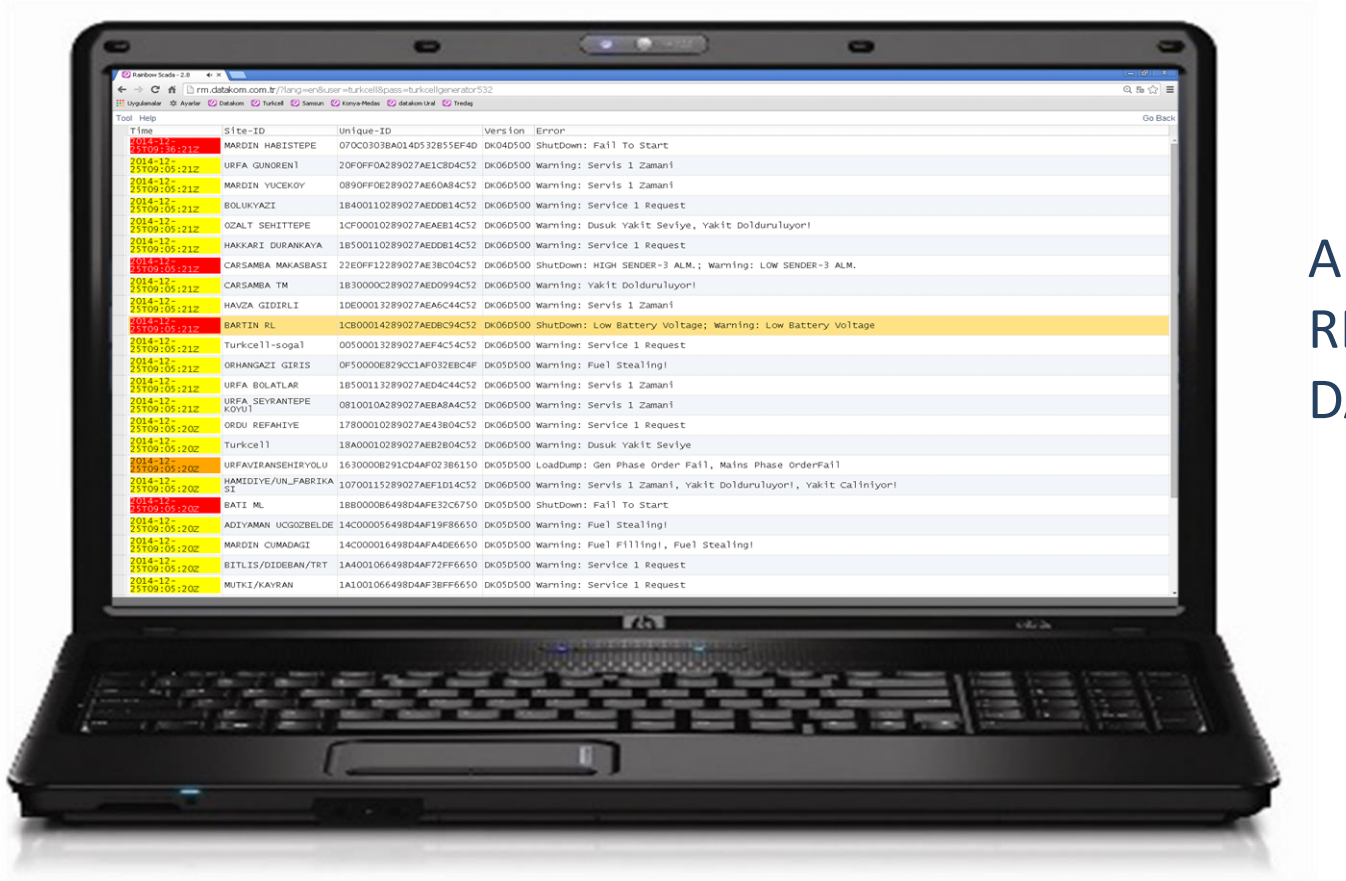
- **JPG FILES**
- **EXCEL FILES**

ANALYSE PAST PERFORMANCE OF YOUR SYSTEM !

DATAKOM

ONLINE ALARM MANAGEMENT

DESIGNED FOR CONTROL CENTERS

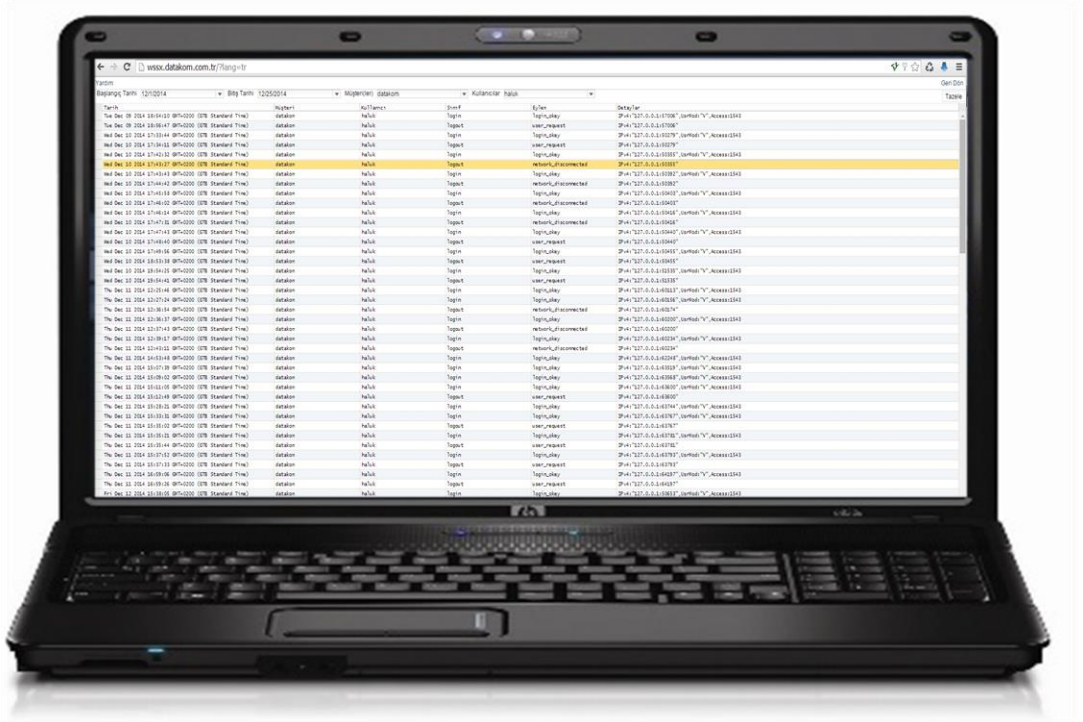


ALARM HISTORY IS RECORDED INTO DATABASE

DATAKOM

CUSTOMER LOGIN HISTORY RECORDING

MONITOR SUB-USER ACTIVITIES



LOGIN HISTORY IS RECORDED INTO DATABASE

HELPS TO INCREASE SECURITY !

DATAKOM

DETAILED REPORTING

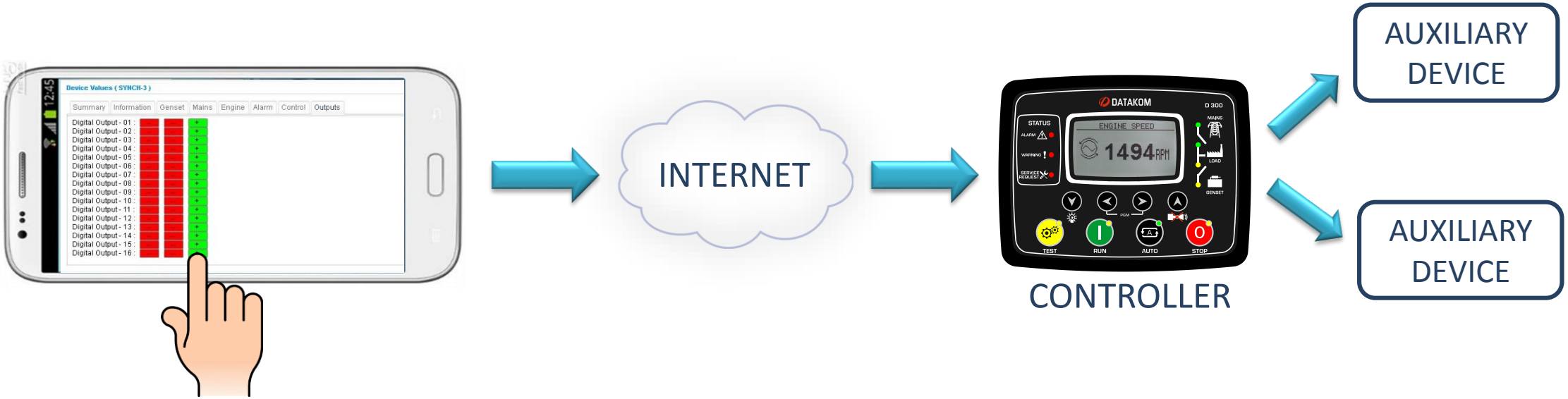
ALLOWS TIME-FRAMED REPORTING OF SELECTED PARAMETERS

- **FUEL CONSUMPTION REPORTS**
- **kW/fuel EFFICIENCY REPORTS**
- **POWER GENERATION REPORTS**
- **POWER CONSUMPTION REPORTS**
- **AVERAGE VALUES**
- **MIN-MAX VALUES**

PROVIDES HELP FOR BETTER MANAGEABILITY OF YOUR FLEET !

DATAKOM

REMOTE CONTROL OF AUXILIARY DEVICES

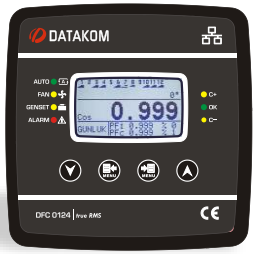


MONITOR ALL DATAKOM PRODUCTS

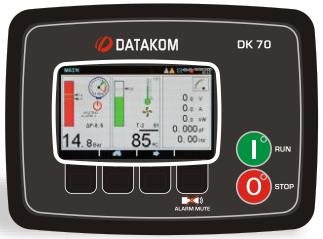
GENSET CONTROLLERS

POWER ANALYSERS

REACTIVE POWER CONTROLLERS

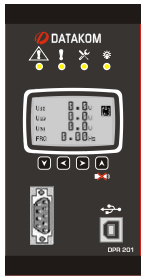


COMPRESSOR CONTROLLERS



INTERNET

PROTECTION RELAYS



RAINBOW SCADA SERVER

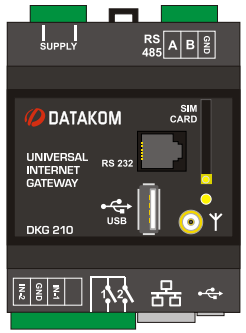
INTEGRAL APPROACH

MONITOR THIRD PARTY & COMPETITOR PRODUCTS

ENERGY METERS

INDUSTRIAL CONTROLLERS

COMPETITOR GENSET CONTROLLERS



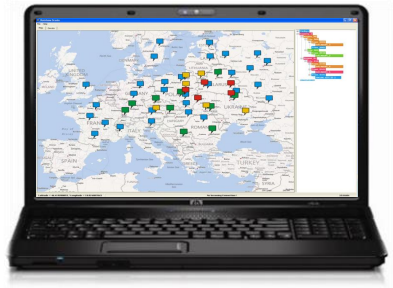
DKG-210 UNIVERSAL INTERNET GATEWAY

ETHERNET PORT

GPRS MODEM

INTERNET

RAINBOW SCADA SERVER



DATAKOM

COST ADVANTAGE

MONITOR YOUR SYSTEM WITH LOWER DATA COST !

CONTROLLER

RAINBOW SCADA SERVER

- CONTROLLERS CONNECT AUTOMATICALLY
- NO NEED TO QUERRY THE CONTROLLER
- ALL DATA IS SENT IN A SINGLE IP PACKET

COST ADVANTAGE

EACH CONTROLLER COMES WITH 2 YEARS FREE MONITORING

- **2 YEARS FREE MONITORING**
- **6 MONTHS FREE REMOTE CONTROL**
- **6 MONTHS FREE REMOTE PARAMETER EDIT**
- **6 MONTHS FREE DATA ANALYSIS**

IMMEDIATE FAULT DETECTION

REDUCE CUSTOMER'S DOWN TIME WITH FASTER INTERVENTION

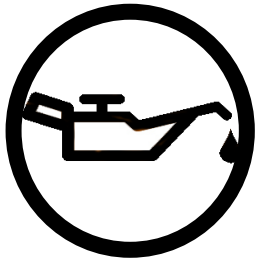
YES !

NO !

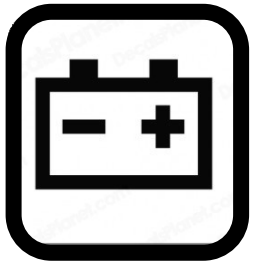
FAULT SENSING BEFORE FAILURE

GENERATE ALERTS BEFORE THEY BECOME EMERGENCIES

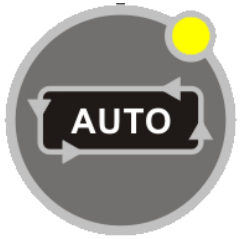
LOW FUEL



LOW OIL



LOW BATTERY



NOT IN AUTO

SERVICE REQUEST

DATAKOM

REMOTE FUEL FILLING MONITORING

CONTROLLER COUNTS FLOW METER PULSES

FUEL PUMP

FLOW METER

FUEL TANK

PULSE OUTPUT

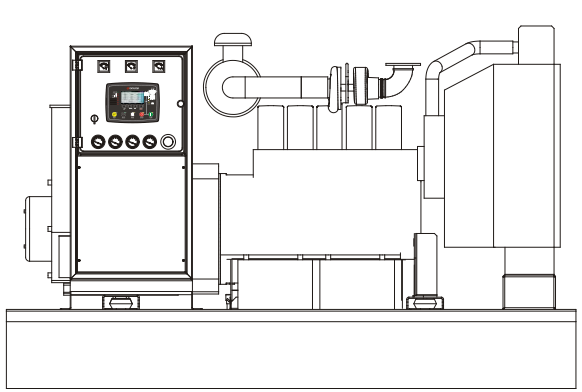
INTERNET

SAVE YOUR MONEY BY ELIMINATING FUEL FILLING FRAUDS !

DATAKOM

FUEL CONSUMPTION MONITORING

CONTROLLER COUNTS FLOW METER PULSES



GENERATOR

FLOW METER

PULSE OUTPUT

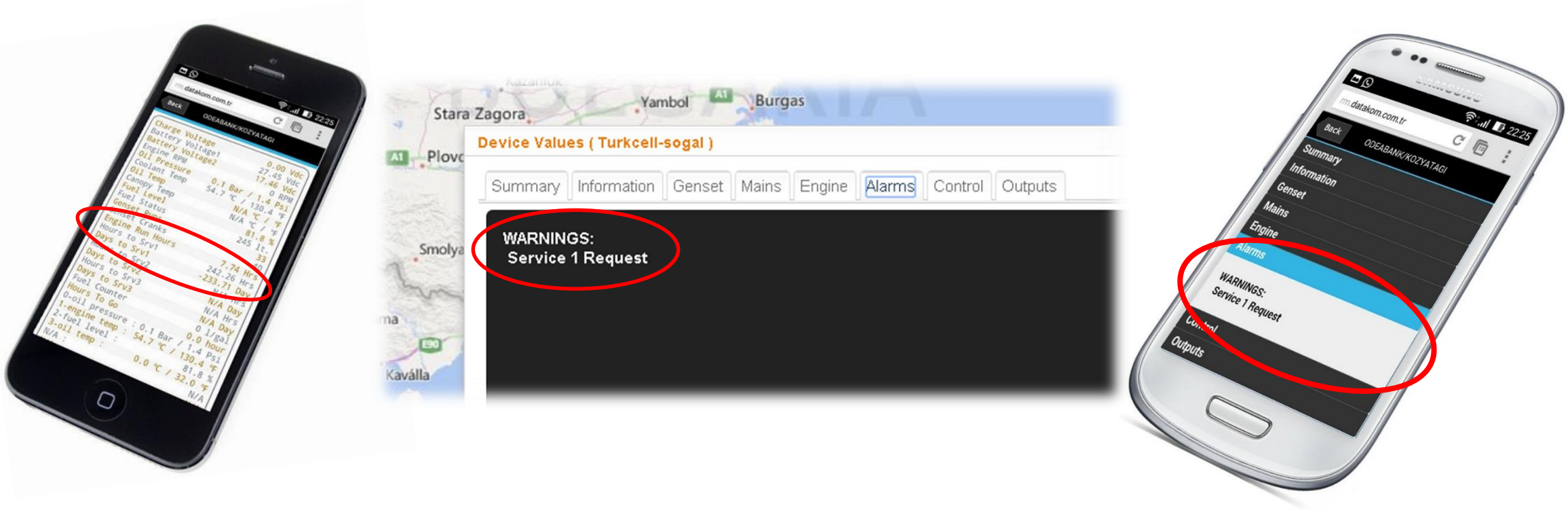
INTERNET

MONITOR YOUR GENSET'S **kW/FUEL** EFFICIENCY

DATAKOM

REMOTE SERVICE MONITORING

REDUCE YOUR SPARE PARTS COST BY SERVICE PLANNING !



AVOID UNNECESSARY SERVICE VISITS

DATAKOM

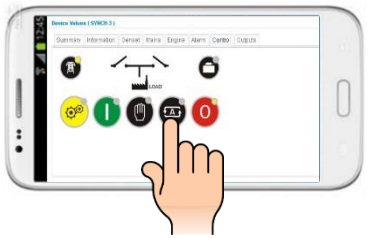
LESS MANPOWER FOR SERVICE

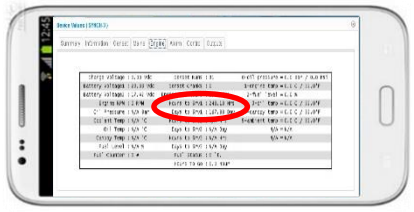
AVOID UNNECESSARY SITE VISITS

NO !

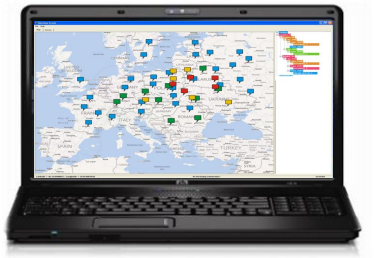
YES !

ADVANTAGES





- GENERATE ALERTS BEFORE THEY BECOME EMERGENCIES
- RESET FAULTS FROM YOUR CONTROL ROOM
- TEST YOUR GENSET FROM YOUR CONTROL ROOM
- REDUCE YOUR DOWN TIME WITH FASTER INTERVENTION
- AVIOD UNNECESSARY SITE VISITS
- REDUCE YOUR SPARE PART COST BY SERVICE PLANNING
- ELIMINATE FUEL THEFT
- ELIMINATE ENERGY THEFT
- ELIMINATE FUEL FILLING FRAUDS
- HAVE YOUR CRITICAL SITE ALWAYS UP
- HAVE DATA SECURITY
- INTEGRATE THIRD PARTY PRODUCTS IN THE SAME NETWORK
- CONTROL YOUR ENTIRE REMOTE STATION VIA D-300



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