



IDIS REFLEX®  
**ECS ALARM**  
SYSTEM



# YAPI MERKEZI IDIS ECS ALARM SYSTEM

Build to monitor and control the situations in technical buildings along the railway line and highways.

## ALARM CONTROL UNIT

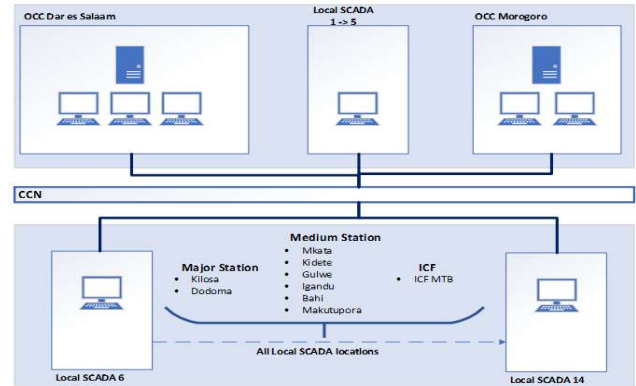
Main functions of the Alarm Control Unit systems are detection, evaluation and monitoring of critical situations such as fire, intrusion, temperature and power supply (generator, UPS and distribution boards) status in technical buildings with related alarm notifications.



Alarm Control Unit (ACU)

## SCADA System

SCADA System is integrated into the Alarm Control Unit for monitoring and control. Generated alarm notifications warn the operator through the SCADA System and the operator can check and confirm the information about the related alarms.



ECS System Architecture



ECS User Interface

### Alarm Control Unit Features

- Ergonomic structure
- Easy to install
- Optimum use of space
- Maximum flexibility
- PLC based system
- Network connection support
- Practical user interface
- Local warning / Announcement option

### Alarm Control Unit Functions

- Fire detection
- Intrusion / Theft detection
- Temperature monitoring
- Monitoring power system boards
- UPS / Generator monitoring
- Mechanical systems monitoring
- Key / Card entry system

### Alarm Control Unit Configurations

- Wide range of communication protocols
  - MODBUS TCP/IP
  - Standard TCP/IP
  - SNMP
  - IEC 870-5-104
  - RS232 – RS485
- Flexible protection class- Outdoor option
- HMI option
- Sizing according to the controlled area

### SCADA Functions

- Fire alarms
- Intrusion alarms
- Power system / UPS alarms
- Camera recording and monitoring
- Filtering / reporting past alarms
- Printing

### SCADA Configurations

- Distributed system solutions
- Master - Slave operation
- Wide range of communication protocols
- Remote access
- Control options (lighting, ventilation)

### References

- Irmak - Karabük - Zonguldak Railway / Turkey
- Bir Touta - Zeralda Railway / Algeria
- Awash - Kombolcha - Hara Gebaya Railway / Ethiopia
- Dar es Salaam - Morogoro Railway / Tanzania
- Yerköy - Sivas HSL / Turkey
- Morogoro - Makutupora Railway / Tanzania