

ProTotal Series

Electrical panels ProTotal T99 type



ProTotal T99 – Automation panel



ProTotal T99 – PLC automatic panel



Destination

These panels are designed for various applications in different sectors, in complexe installations in all of the industry, in agriculture, water treatment, producing and transport of the electrical energy. According to customer's requests it can be manufactured as it follows:

- **command ;**
- **display, recording ;**
- **controll ;**
- **metering ;**
- **automation ;**
- **signals and data remote transmission;**
- **electrical and nonelectrical metering units;**

Components

A ProTotal T99 type panel is composed by an ensemble of metallic panels

The main components of a Dulap D99 panel are :

- metallic frame, manufactured from metallic profiles electrostatic painted, assembled with screws;
- side walls, access doors, manufactured from double pickled steel sheet electrostatic painted
- security accessorize: Dirak handles
- pedestal
- natural or forced ventilation
- glands access covers
- mounting elements, mounting panels, beams, apparatus supports made by double pickled steel sheet

Electrical equipment :

- primary and secondary switch apparatus ;
- relays, plcs, electronic cards drawers;
- signaling, display, metering apparatus;
- voltage and current transformers;
- softstarters and converters ;

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Operating conditions

• montage	interior
• 24 h environmental average temperature	35°C
• storage and transport temperature	-33 : +50°C
• operating environmental temperature	-40 : +50°C
• climatical fabrication	N3
• relative humidity	90% at 20°C
• maximal altitude	2000 m
• lifetime	20 years

Constructive versions

The constructive versions are as it follows:

- **depending on the type and number** of the panels which make up the unit :
 - > left end;
 - > right end ;
 - > group panel ;
 - > individual panel ;
- **depending on the access type** :
 - > front access ;
 - > back access ;
 - > front and back access ;
- **depending on the doors number**:
 - > with 1 door ;
 - > with 2 doors ;
- **depending on the cables access** :
 - > bottom access ;
 - > top access ;
 - > top and bottom access ;
- **depending on the protection degree** IP = 40 , 43 , 54 ;
- **standard colour** RAL 7032 ;

Installation

The panels are delivered dismantled on independent columns with the busbar separately delivered. The fabrication mode allows a quick reassemble at the mounting place and facilitates the installation.

The installation can be done :

- **directly on the concrete floor** with dowels ;
- **on metallic profiles** U type;
- **on scaffolds** or other adapted supports ;