

ATyS C55

ATS Controller

mid-level functionalities

Transfer switches

new



ATyS C55

The solution for

- > Commercial buildings
- > Applications:
 - Genset/Genset
 - Network/Genset
 - Network/Network
 - External/portable systems



Strong points

- > Smart commissioning
- > Intuitive use
- > Hi-resolution LCD screen

Conformity to standards

- > IEC 61010-2-201
- > IEC 60947-6-1
- > GB/T 14048.11 Annex C



Communication gateways



DIRIS Digiware M-70 & D-70

Double power supply - DPS*



* Optional for use with ATyS r, breakers and contactors without integrated DPS

Function

ATyS C55 is a complete ATSE controller that can be used to pilot a remotely operated transfer switch of any technology: motorised switches (e.g. ATyS r, ATyS S or ATyS d M), circuit breakers or contactors. ATyS C55 ensure the automatic or remotely controlled transfer from one source to another, with configurable timers and thresholds, for any combination of sources: 2 transformers, 1 transformer and 1 genset or 2 gensets.

Advantages

Fast commissioning

On initial power up, the ATyS C55's smart wizard will guide the operator through the commissioning process.

Versatile

The ATyS C55 is compatible with contactors, breakers and switches. It can also work for all type of 2-source applications combining mains and gensets.

Clear visualisation and operation

- High-resolution LCD screen with clear defined messages.
- Real-time pop-ups to show timers, alarms, faults and information alerts.
- Quick and easy access to main functions through the front face with direct key input.
- Complete configuration can be achieved through the front face or via software (EasyConfig).

General characteristics

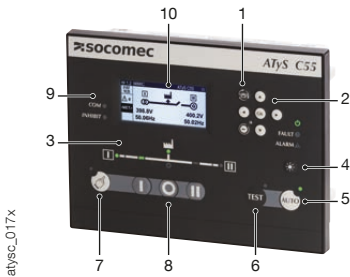
- Self-powered from sensing.
- Wide voltage range (88-576VAC).
- 24 VDC aux power supply (for optional use).
- 2 latching relays.
- Smart commissioning wizard.
- IP65 degree of protection with gasket (accessory).
- 1000 Alarms and Events.
- 6 fully configurable I/O.
- Genset scheduler.
- Door or back plate mounting.
- Main/Main, Main/Genset and Genset/Genset applications.
- Easyconfig configuration software.
- RS485 Modbus communication.
- Ethernet, SNMP, BACnet using DIRIS M-70 gateways. Includes Webserver.
- A DIRIS Digiware D-70 gateway can be utilised as a remote display for multiple ATyS C55/C65 controllers; the D-70 also provides Ethernet, SNMP & BACnet connectivity.

References

| Description | Reference |
|--|-----------|
| ATyS C55 – ATS controller (includes mounting kits) | 1600 0055 |
| IP65 gasket for door cut-out (1) | 1609 0001 |
| DIRIS Digiware M-50 multi-protocol Ethernet gateway | 4829 0221 |
| DIRIS Digiware D-50 multipoint display, Ethernet output | 4829 0204 |
| DIRIS Digiware M-70 communication gateway for Ethernet & Webserver | 4829 0222 |
| DIRIS Digiware D-70 communication gateway for Ethernet & Webserver and multi-product display | 4829 0203 |
| Double power supply - DPS | 1599 4001 |

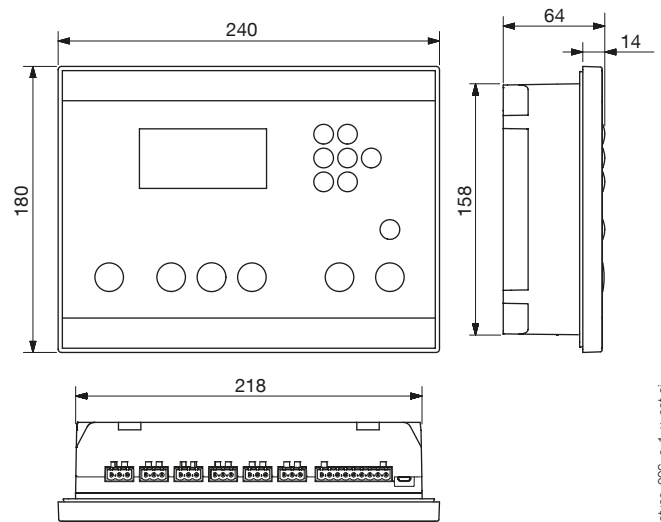
(1) The gasket provides an IP65 seal between the controller and the panel door; the front face (display & keys) is IP65 as standard.

Front panel



1. Dashboard displays.
2. Navigation keypad.
3. Mimic LED indication.
4. Lamp test button / LED info.
5. AUTO mode select.
6. TEST button.
7. CONTROL mode select.
8. Position orders (only in CONTROL mode).
9. Inhibit and communication indication.
10. Hi-res LCD screen.

Dimensions (mm)



Characteristics

Electrical characteristics

| | |
|----------------------|--------------------------|
| AC operating limits | 110 - 480 VAC $\pm 20\%$ |
| Optional DC supply | 24 VDC |
| Frequency limits | 45 - 65 Hz |
| Power consumption | < 10 W |
| Inputs | 6, fully programmable |
| Outputs | 6, fully programmable |
| Output relays | 8 A AC15 |
| EMC classification | Class A and B |
| Impulse withstand | 8/6 kV ⁽¹⁾ |
| Overvoltage category | CAT 3 |

(1) 8 kV tested between phases of a different source and 6 kV tested between phases of a the same source.

Mechanical characteristics

| | |
|-----------------------|---------------------------|
| Weight | 1080 gr |
| Door cutout | 220 x 160 mm |
| Protection degree | IP65 with optional gasket |
| Operating temperature | -30 ... +70 °C |

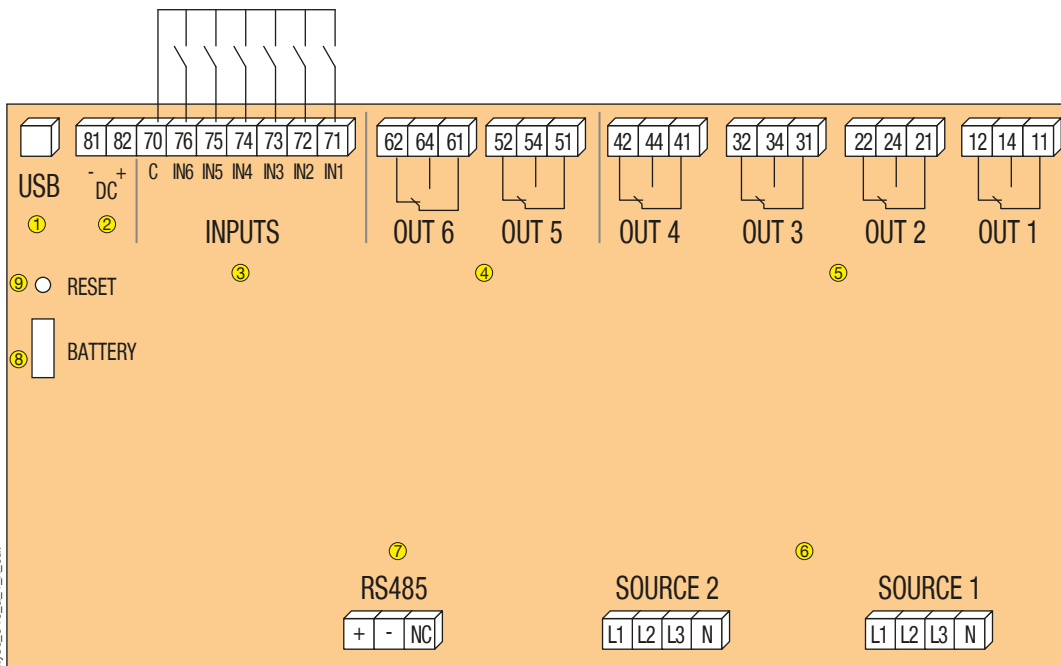
Communications

| | |
|----------------|---------------------------------|
| Interface type | RS485. 2 to 3 half duplex wires |
| Protocol | MODBUS RTU |
| Baudrate | programmable 1200 - 115200 bps |

Display

| | |
|-------------------|------------------|
| Screen resolution | 350 x 160 pixels |
| Event recorder | 1000 events |

Terminals



1. Configuration USB
2. 24 VDC aux power supply (for optional use)
3. 6 x inputs
4. 2 x latching relay outputs
5. 4 x relay outputs
6. Source sensing (110-480 $\pm 20\%$)
7. RS485 communication
8. Replaceable RTC battery
9. Hard reset button