

ATyS C66

UL ATS Controller

for Open and Delayed Transition



ATyS C66

The solution for

- > Standby power builders
- > OEM/Machine builders
- > Industrial Control Panels Manufacturers (UL 508A)
- > Switchboards Manufacturers (UL 891)
- > Distributors



Strong points

- > Self-powered
- > Built-in advanced features
- > Intuitive menus & Dashboards
- > NEMA 3R/12

Conformity to standards

- > UL 61010
CSA-C22.2 No. 61010-1
Guide NRAQ
File E206136
- > UL 1008
CSA-C22.2 No. 178.1-14
Guide WPWR
File E506172
- > IEC 60947-6-1



Communication gateways



DIRIS Digiware M-70 & D-70

Function

ATyS C66 is an ATSE controller designed to control all types of emergency system, legally required and optional standby transfer switching equipment. The AtyS C66 is cULus 1008 listed with AtyS FT* and AtyS DT* power contactor switches as well as cURus 1008 and cULus 61010 listed for use with circuit breakers or contractors. AtyS C66 ensures automatic and manual transfer from one source to another with fully configurable timers and thresholds.

* AtyS FT Fast Transfer, AtyS DT Delayed Transfer.

Advantages

Fast commissioning

On initial power up, the AtyS C66's smart wizard will guide the operator through the commissioning process.

User customizable

Front panel LEDs, load shedding, engine exercisers and the elevator control signal are just some of the customizable features available on AtyS C66.

Intuitive operation

- The high-resolution LCD screen provides several dashboards enabling easy monitoring of all parameters, including power and energy consumption of the loads.
- The integrated energy backup provides transitional power to the product enabling status indication (switch position, timer status, fault notifications) and communication to remain active with no supply present.
- Quick and easy access to main functions through the front panel with direct key input.

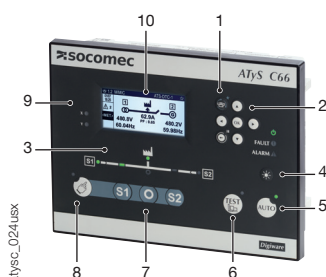
General characteristics

- Self-powered from voltage sensing.
- Wide voltage range (88 - 576 VAC).
- 24 VDC aux power supply (for optional use).
- 6 x 8A programmable dry contact Form C outputs (SPDT) (2 latching relays).
- 6 x programmable inputs.
- DIN rail mountable I/O extension, up to 30 inputs and 18 outputs (accessory).
- Power & Energy metering with 1 or 5A current transformers.
- Up to 30 second energy backup.
- Smart wizard.
- 3000 Alarms and Events.
- Built-in engine exerciser with 4 independent programs.
- Associated Webserver software.
- In-phase transfer.
- Tiered access levels of password protection.
- UV tested.

References

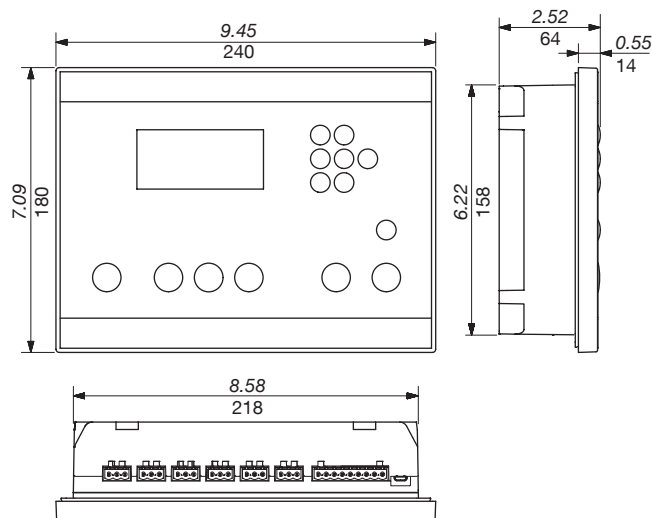
Description	Reference
ATyS C66 controller	1600 0066
DIRIS Digiware IO-10 (4 input/2 output) DIN-rail extension	4829 0140
DIRIS Digiware M-70 communications gateway for Ethernet & Webserver	4829 0222
DIRIS Digiware D-70 communication gateway for Ethernet & Webserver and multi-product display	4829 0202
Current Transformers	Consult us
ATyS FT / AtyS DT and cable harnesses	Consult us

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. Customizable LED.
10. Hi-res LCD screen.

Dimensions (in/mm)



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Characteristics

Electrical characteristics

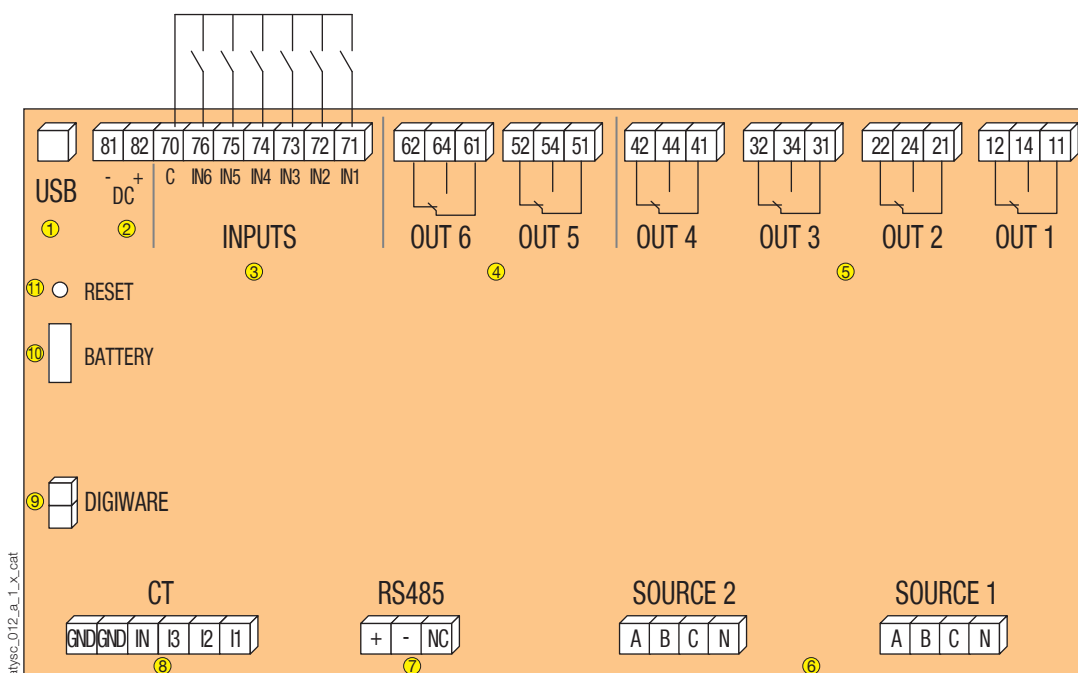
Operating AC limits	110 - 480 VAC $\pm 20\%$
Optional DC supply	24 VDC
Frequency limits	45 - 65 Hz
Power consumption	< 10 W
Current transformers	1 or 5A
Measurement type	True RMS (TRMS)
Inputs	6 x fully programmable
Outputs	6 x form C, fully programmable
Output relays	8A general use
I/O Extension (IO10)	Up to 30 inputs and 18 outputs
Overvoltage category	CAT III
Impulse withstand	8/6 kV ⁽¹⁾

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

Mechanical characteristics

Weight	2.38 lb / 1080 gr
Door cutout	8.66 x 6.3 in / 220 x 160 mm
Protection degree	NEMA 3R/12, IP65
Operating temperature	-22 ... +158 °F / -30 ... +70 °C
Communications	
Interface type	RS485. 2 to 3 half duplex wires
Protocol	MODBUS RTU
Baudrate	Programmable 1200 - 115200 bps
Digiware bus cable	RJ45 specific cable
Display	
Screen resolution	350 x 160 pixels
Event recorder	3000 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. Current transformers (1 or 5A)
9. Digiware RJ45 connectors
10. Replaceable RTC battery
11. Hard reset button