

RI-A5DCAO Module



2 x Analogue Output Module (mA) for RI-F500 Series

- Extends the capability of the RI-F500 Series Multifunction Network Analysers
- Automatically recognised by RI-F500 Series

Product Description

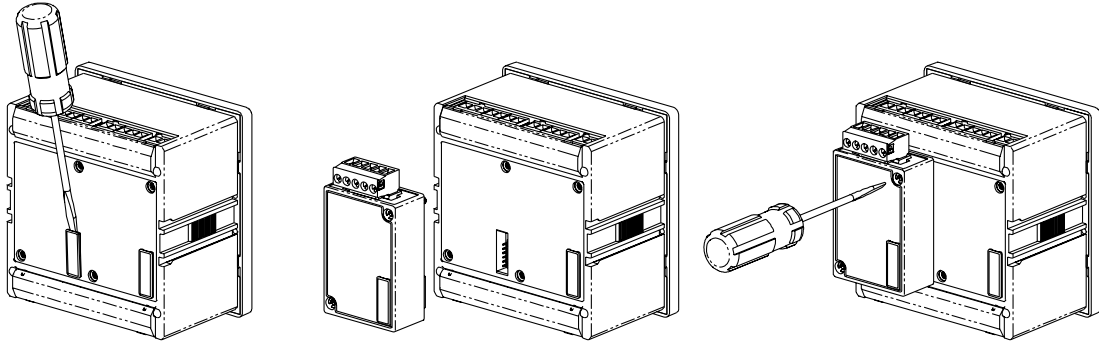
The RI-A5DCAO is a 2x analogue output module (mA) used to extend the function of the RI-F500 Series Network Analysers.

Safety Instruction

Please read this user information carefully before using this module.
This module must be installed and serviced by professional personnel.
The installer is responsible for compliance with these instructions.

Installation and Operation

Disconnect the power supply of RI-F500/RI-F550, and then connect the RI-A5DCAO module to slot X2 (take slot X2 as example).



Connect the RI-F500/RI-F550 to the power supply, and then enter the module interface of the RI-F500/RI-F550 to check the information of slot X2. If the connection between the meter and the module is correct, the parameters of RI-A5DCAO will be shown.

Display

The diagram below shows the theoretical value of analogue outputs:-

No. 01 outputs 12.5mA

No. 02 outputs 6mA

| ◀ Module X2 ▶ 5.3 | |
|--------------------|-----------|
| RI-A5DCAO (4-20mA) | |
| No. | Value |
| 01 | 12.500 mA |
| 02 | 06.000 mA |

Setting

The RI-F500 Series multifunction network analysers will automatically identify installed modules. The user needs to set item, mode and corresponding value to upper and lower limits for analogue output:-

Item. See table on page 3

Mode. 0-20 / 4-20 / 4-12-20mA

Upper limit. Corresponding value to 0/4mA (secondary value)

Lower limit. Corresponding value to 20mA (secondary value)

| X2 Analogue Output | | | | |
|--------------------|------|--------|------|------|
| No. | Item | Mode | DS | FS |
| 01 | V1 | 4-20mA | 0000 | 3800 |
| 02 | I1 | 4-20mA | 0000 | 5000 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Analogue output items are shown in the table on page 3.

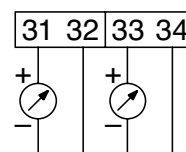
Upper and lower limits take secondary value as reference. Each output item has a specified unit.

For example: unit of voltage is 0.1V if user needs to set 380V corresponding to output value 20mA; the upper limit value should be 3800.

The upper limit value should not be higher than twice the rated value.

The 4-12-20mA output mode is only for active power, reactive power and power factor.

Wiring Diagram



Item Setting

| Item | Description | Unit |
|------|----------------|--------|
| OFF | Off | - |
| V1 | Voltage | 0.1V |
| V2 | | |
| V3 | | |
| V12 | | |
| V23 | | |
| V31 | | |
| I1 | Current | 0.001A |
| I2 | | |
| I3 | | |
| I0 | | |
| P1 | Active power | 1W |
| P2 | | |
| P3 | | |
| P | | |
| Q1 | Reactive Power | 1Var |
| Q2 | | |
| Q3 | | |
| Q | | |
| S1 | Apparent power | 1VA |
| S2 | | |
| S3 | | |
| S | | |
| PF1 | Power factor | 0.001 |
| PF2 | | |
| PF3 | | |
| PF | | |
| F | Frequency | 0.01Hz |

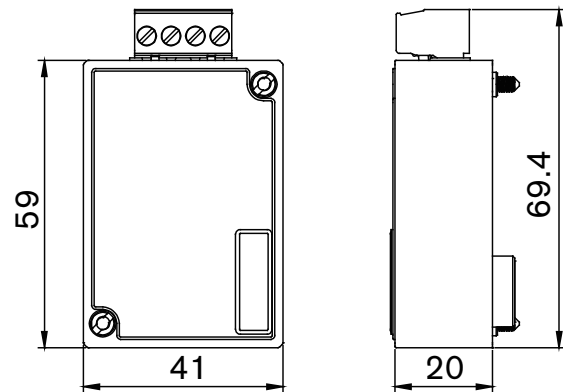
Technical Parameters

| | |
|----------------------|-----------|
| Measurement channels | 2 |
| Output range | 0...24mA |
| Load resistance | 0...5000Ω |
| Response time | 1s |
| Electrical isolation | 2kV |
| Accuracy | 0.5% |

Environmental Conditions

| | |
|-----------------------|-------------------------|
| Operating temperature | -25°C...+75°C |
| Storage temperature | -40°C...+85°C |
| Relative humidity | 0...95%, non-condensing |

Dimensions



Model Selection Table

| Communications | Model |
|----------------------------------|-----------|
| Two Analogue Outputs module (mA) | RI-A5DCAO |