

# ZYGOT<sup>®</sup> Arc

## Arc Flash Protection System

### > Relay not switching on

- Check if the power supply terminal is powered correctly.
- Check if the power supply to the relay input is 24 Vdc.
- Check if the power supply is switching.

### > Sensor not responding

S. xxx — “x” corresponds to a number from 0 to 50.

- Check if the sensors are correctly addressed with different numbers.
- Check if 01 termination resistor is used to close the sensor loop.
- Check if all cables are connected.
- Check if the sensor terminals are intact.
- Check if any sensors are burnt out — You can check this using the addressing software, or by looking at the sensor's rear LED. If the LED is off, the sensor is burnt out.

### > Communication failure with supervisor

- Check on the Modbus configuration screen if the function is active:
  1. On the relay, press the CONF/UP button to enter the configuration menu.
  2. Select the MODB option and press the RESET/ENTER button.
  3. Within MODB, select the PORT parameter and press the RESET/ENTER button.
  4. Set the PORT value to “P. ON” and press the RESET/ENTER button so that the screen starts flashing. At this point, press the RESET/ENTER button again to confirm. The message “SAVE” will appear on the screen.

### > Relay tripping

- To reset the condition, press and hold the joystick (Reset/Enter button) for a few seconds.

- If the previous items are correct, test the cables individually.
- Check for a possible short in the termination resistor.
- Check if the maximum distance of the sensor network is being respected — 80 meters.
- Check that the maximum number of sensors in the network has not been exceeded — 50 sensors.
- Check if the topology is correct (we don't use ZTA shunt for this system).

The other parameters required for the connection are also found within the MODB option (Address, Baud Rate, Parity and so on).

- Check the pinout according to the communication protocol used (Modbus RS 485).
- See the Modbus map in the product manual.
- Check the use of a resistor in the customer's Modbus network.
- Analyze possible interference from other *slaves* on the network.

## Downloads

- Addressing Software: [Zygot Arco 3.00 Configurador](#)
- ZYGOT<sup>®</sup> Arc Manual: [User Manual](#)