

DAM-3502(T)

User's Manual



Beijing ART Technology Development Co., Ltd.

DAM-3502(T) Module

Single-phase Intelligent Alternating Current Module

- ※ Voltage Range: 400V (can be customized)
- ※ Current Range: 5A (can be customized)
- ※ Precision: $\pm 0.2\%$
- ※ Output Parameters: voltage, current, active power, reactive power, apparent power, power factor, total power degree, humidity (only T module supports), temperature (only T module supports)
- ※ Built-in Watchdog
- ※ External Current Transformer
- ※ On-board temperature and humidity sensor (only T module supports)
- ※ Power Consumption: $0.22W@24V_{DC}$
- ※ Power Supply: unregulated $10\sim 30V_{DC}$

Baud Rate Configuration Code Table

Code	00	01	02	03	04	05	06	07
Rate	1200	2400	4800	9600	19200	38400	57600	115200

Terminal Definition

No.	Name	Description
1	Ua	Phase measurement voltage input
3	UGND	Measurement voltage input ground, isolation with power ground.
6	INIT*	Reset pin, connect with(B)GND, then power on
7	(Y)DATA+	RS-485 (positive)
8	(G)DATA-	RS-485 (negative)
9	(R)+Vs	DC power input , $+10\sim +30V_{DC}$
10	(B)GND	DC power ground
	Ia ←	Tested lines positive through the current transformer
others	NC	Reservation

DAM-3502(T)

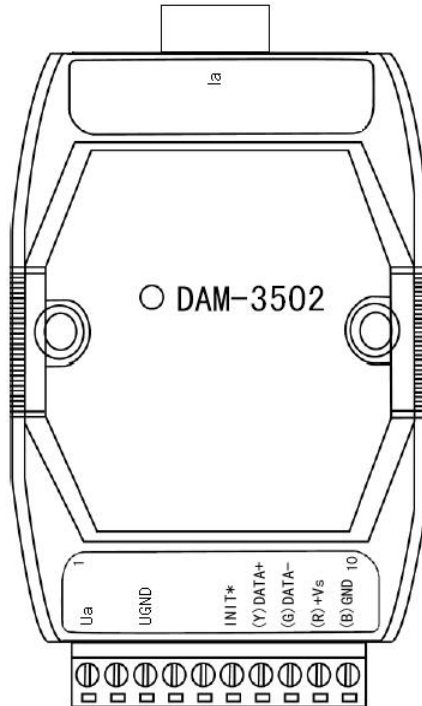


Fig. 1 DAM-3502(T) Drawing

Wiring & Installation

Power supply requirements: unregulated +10 V_{DC} ~ +30 V_{DC}. "+Vs" is a positive, and "GND" is ground. "DATA +" and "DATA-" connect with "DATA +" and "DATA-"(or "A" and "B") of RS-232/RS-485 transformation module, then connect the transformation module with computer, do not hot plug carefully. The power indicator flashes after wiring is correct, then you can communication with the host computer.

According to the label directs color to wiring:

+Vs	(R)	Red	DATA+	(Y)	Yellow
GND	(B)	Black	DATA-	(G)	Green

Application Wiring

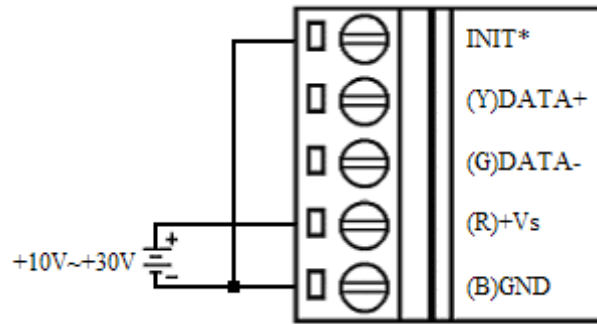
Reset Connection:

Shorted the INIT * and GND shorted, add +10 ~ +30 VDC between +Vs and GND, power on, the module indicator quickly flashes three times, power off until the indicator stops flashing, disconnect the INIT * and GND, then reset the module has been completed.

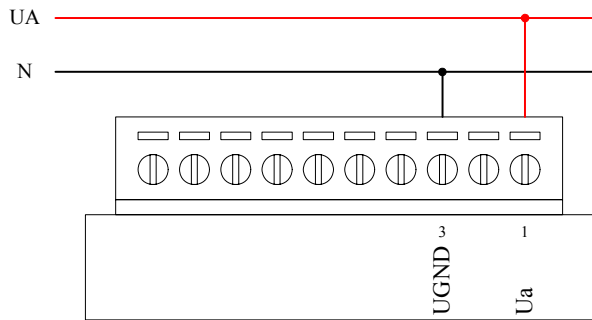
After reset successfully, the module restore the factory default values:

Module Address: 1

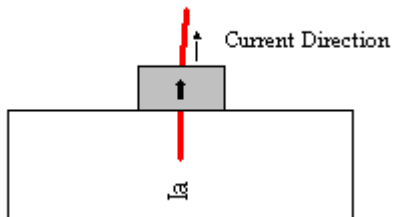
Baud Rate: 9600



Voltage signal connection method

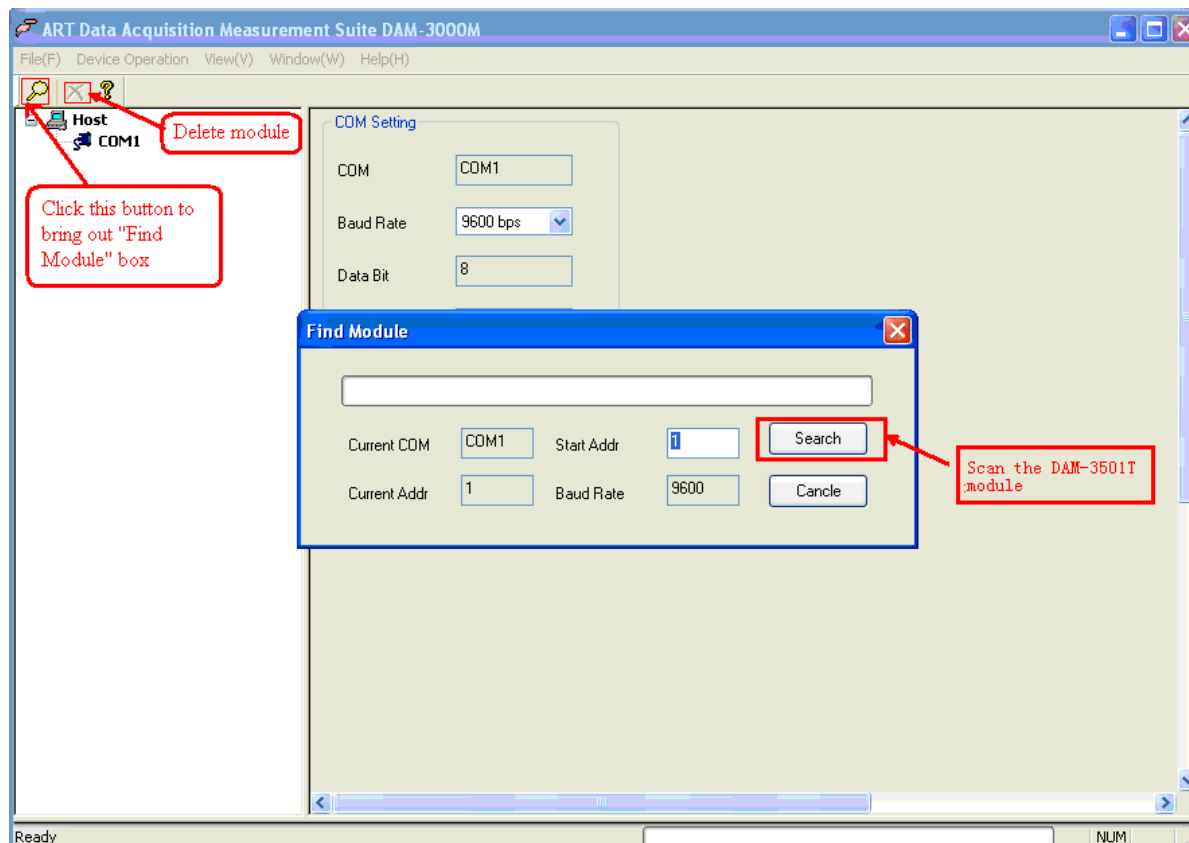
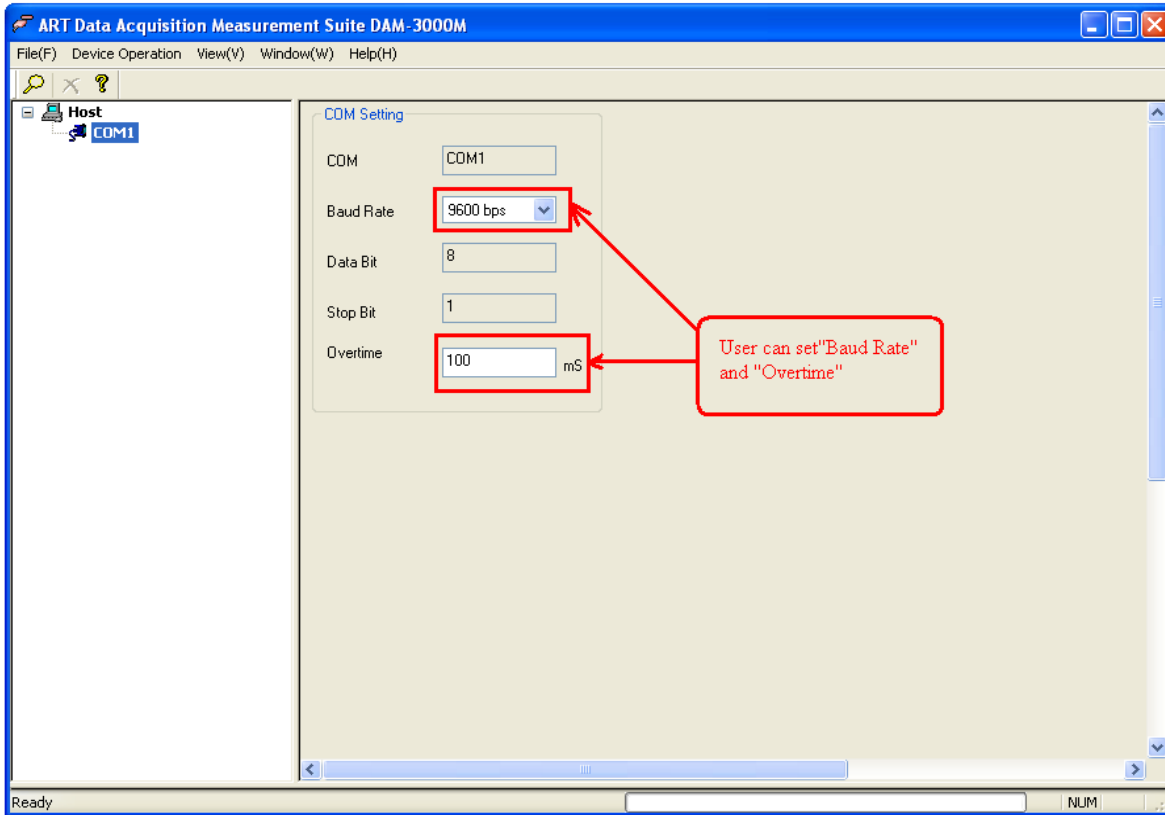


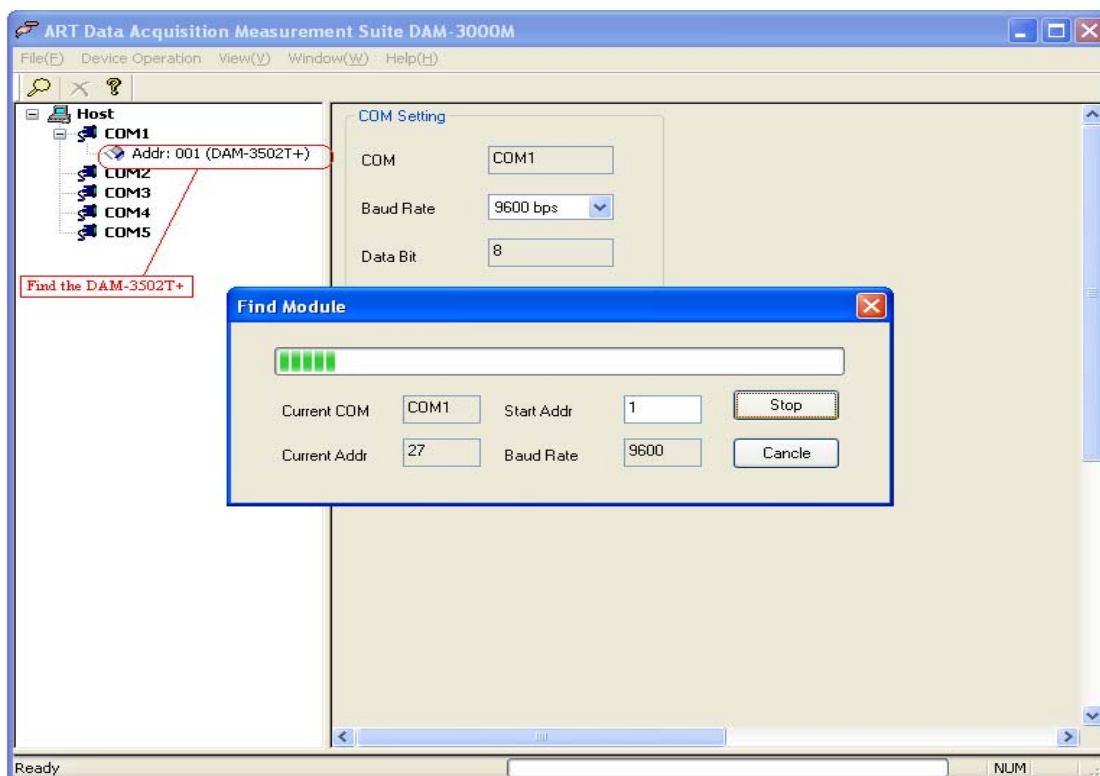
Current signal connection method



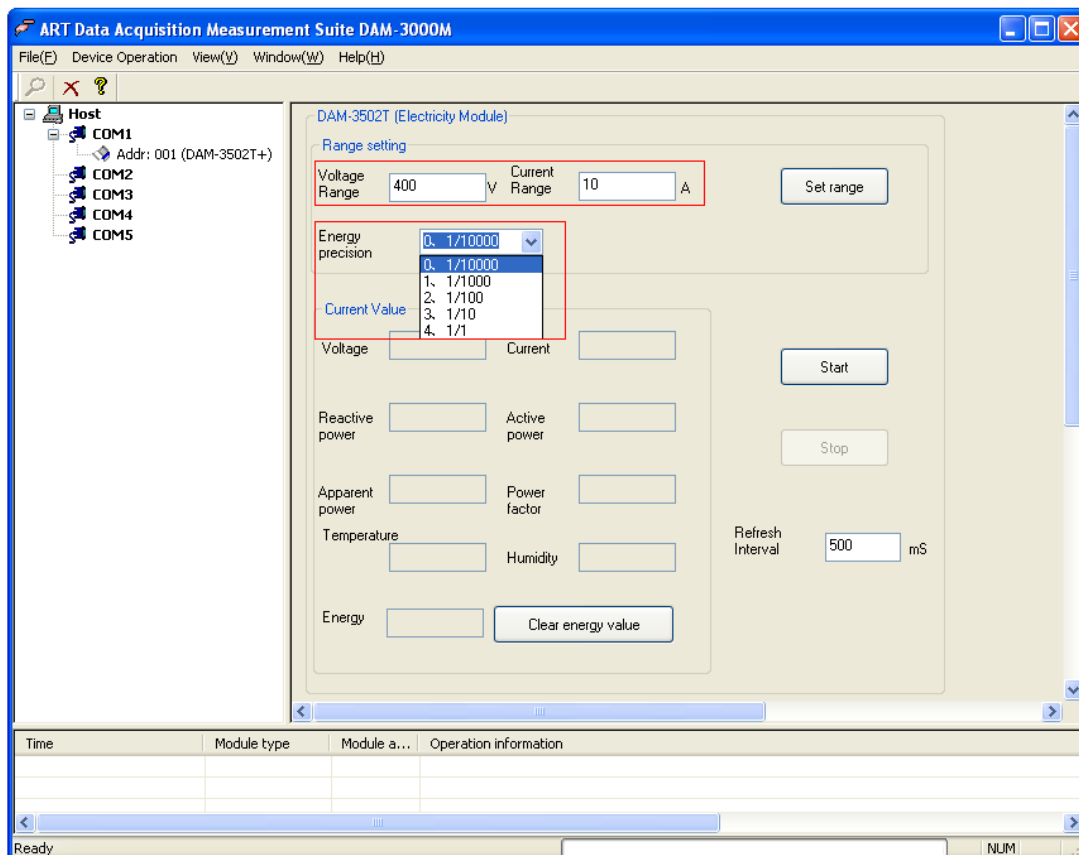
Operation Interface

Open the DAM-3000 Software, clicking the "COM1" in the system tree of left dialog block





Clicking the “Addr: 001 (DAM-3502T+)” in the system tree of left dialog block to go to DAM-3502T configuration page. In this page, user can configure the module.



Ddblclicking the “Addr: 001 (DAM-3502T+)” in the system tree of left dialog block to get “Module Information” box, in this box, we can set “Module Addr” and “Baud Rate”.

