



Chromeleon CDS extension

Modbus output

AO300 v1

Modbus is a communication protocol used in industrial environments to enable data exchange between devices, such as analysers, sensors, controllers (like PLCs), and computers. Modbus for Chromeleon is a software tool developed by GAS for data transfer in process environments.

Modbus output software option for Chromeleon

Key features include:

- Enables Chromeleon CDS to communicate directly with external control systems (e.g., PLCs, SCADA)
- Simplifies data transfer between lab and process environments
- Supports Modbus TCP/IP for data exchange over Ethernet networks
- Allows configurable Modbus registers to map Chromeleon variables to specific Modbus addresses. Supports regulatory compliance and audit trails
- Facilitates automation in regulated environments by interfacing directly with control systems: status available as modbus coil ; modbus input available for GC start
- Can be used to trigger actions or alarms based on Chromeleon output
- Reduces need for manual transcription or custom scripting
- Includes GAS Roundabout software for 24/7 operation of Chromeleon

ID	Name	Address	State
11111	idle	0	True
11112	preparing	1	False
11113	measuring	2	False
11114	analysis complete	3	False
11115	measuring calibration	4	False
11116	measuring verification	5	False
11117	Error	6	False
11118	Heartbeat	7	True
11119	Calibrate system	20	False
11120	Measure Sample stream #1	21	False
11121	Measure Sample stream #2	22	True
11122	Measure Sample stream #3	23	False
11123	Measure Sample stream #4	24	False
11124	Emergency stop	40	False

Figure 1 Modbus option for Chromeleon.

Ordering information

pn: AO300
Includes AO100 Roundabout sw

Requirements:

- Windows 10 or 11 operating system
- Chromeleon 7.3.2 maintenance update D
- A fully setup and functioning instrument, eWorkflow and methods

About GAS

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