

JOWA USA

ConsoliDator Multi-Channel Controller



ConsoliDator

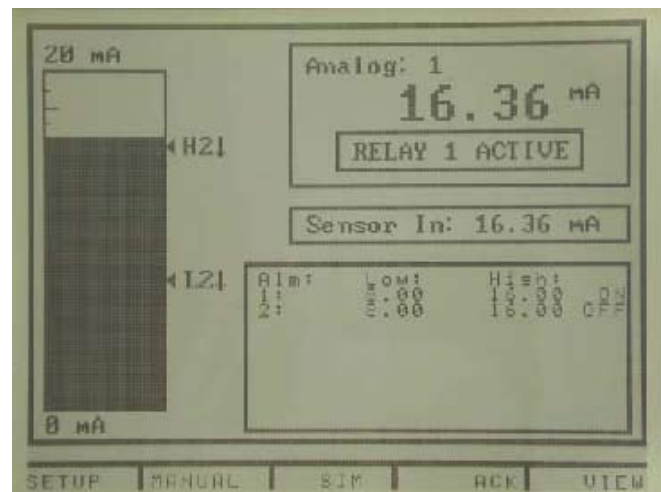
Common Features

- Multiple screens show everything
- Master screen shows all inputs
- Individual screens for each input
- Multiple setup & programming screens
- Easy on-screen programming
- Panel or wall mounting
- Easy to read LCD screen
- Visible in direct sunlight
- Backlit for dimly lit areas
- Modbus RTU communication
- Transient voltage protection
- Powered from AC and DC

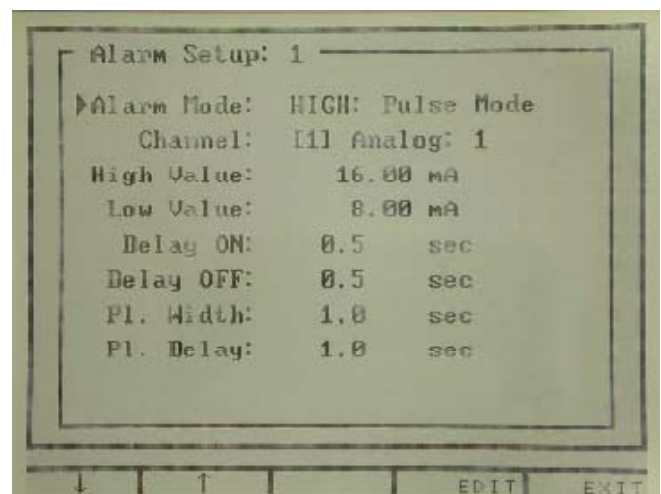
ConsoliDator 8 Specific Features

- Eight 4-20 mA inputs
- Four pulse inputs
- Four digital inputs
- Nine 10 A relays
- Two 4-20 mA outputs

Individual Screens for Each Input



On-Screen Relay Programming



ConsoliDator Multi-Channel Controller

SPECIFICATIONS

Except where noted all specifications apply to operation at +25°C

General

Display: LCD; 4.75" x 3.50" (120 x 89 mm) backlit

Display Update Rate: 2 seconds (0.5 Hz)

Enclosure: Powder-coated steel

Color: Warm gray

Programming method: Five front panel buttons

Power: AC: 90-264 V, 50/60 Hz, 20 VA & DC: 8-30 V, 15 W

Surge Protection: Analog inputs have chokes & TVSs
Power inputs have MOVs

Mounting: Panel or wall mount models

Connections: Removable screw terminals

Dimensions: (H x W x D)

Wall Mount: 8.75" x 8.00" x 3.00"
(222 mm x 203 mm x 76 mm)

Panel Mount: 8.66" x 9.36" x 3.10"
(220 mm x 238 mm x 79 mm)

Weight: 5.5 lbs (2.5 kg)

Environmental:

Operating Temp Range: 0 to 50°C (32 to 122°F)

Relative Humidity: 0 to 90% non-condensing

Warranty: 1 year parts & labor

Screen Displays

Numeric Display: Six digits, ±999999 or feet & inches

Engineering Units: ppm, gal, M, lbs, g/h, psi, ozs,
ft, mA, °C, °F, f&i, %, or user definable

Bargraph: 20 divisions

Numeric & Bargraph Screen:

Numeric Displays: Eight (user selectable)

Bargraphs: Eight (user selectable)

Individual Inputs Screen:

Numeric Display: 1 (w/ sensor input value in mA)

Bargraphs: 1 (with setpoint markings)

Relay Status: Low & high values and status

Process Inputs

Number: Eight

Input: 4-20 mA

Accuracy: ±0.03% of span ±1 Count

Short Circuit Protection: Current limited to 40 mA max

Pulse Inputs

Number: Four

Input: 100 mV to 15 Vp-p; 1 Hz to 10 kHz

Programmable Conversion Factor: 0.00001 to 999999

Totalizer: Calculates total based on rate

4-20 mA Analog Output

Number: Two, assign to any process or pulse input

Accuracy: ± 0.05% of reading (± 0.01 mA)

Output Loop Resistance: 10 to 300 ohms, 12 VDC min.

Isolation: Line power isolated to 1500 VAC

Modbus

Type: RS232 Modbus RTU

Relays

Type: SPDT (Form C) with built in MOVs

Number: Nine

Rating: 10 A @ 120/240 VAC resistive load;

1/3 HP @ 120/240 VAC inductive loads: 10 A @ 28 VDC

Voltage Load minimum: 50 mA for AC, 10 mA @ 5 VDC

Assignment: Any relay may be assigned to any channel

Multiple relays may be assigned to one channel

All relays are programmed independently

Cycle Monitoring: Controller tracks time relay has been active and number of times relay has cycled on/off

Time Delay: 0-999 seconds, on/off delays; programmable

Operation: (See the Operating Manual for additional details)

High or Low Alarm: Assign to analog or pulse channel for on/off relay control. 100% adjustable deadband.

Annunciator High or Low: Assign to analog or pulse channel for on/off relay control with reset capability from digital input switch. 100% adjustable deadband. Auto or manual reset.

Supervisory Alarm: Indicate CPU failure or analog input loss.

High or Low Pulse Action: Assign to analog or pulse input channel for pulsing on/off relay control. 100% adjustable deadband.

Trigger: Assign to pulse channel for indication of user-defined total increment. User selectable pulse width.

Lead-Lag Alternation (Sequence): Link multiple relays for sequential operation. Programmable override setpoints to turn on additional relays.

Pulse Width Modulation: Assign to analog or pulse channel for on/off signal modulated based on input. User selectable cycle time.



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