

Analog Output Modules: Process Voltage & Process Current 🥌



8 Isolated Voltage or Current Outputs

Description

The MAQ20 voltage output module and current output module offer 8 isolated voltage or current outputs. All channels are individually configurable for range and programmable output to match the most demanding applications. High-level per-channel isolation gives the module unmatched ruggedness and flexibility while default outputs provide essential functionality for fail-safe systems. User defined waveform outputs allow application-specific sophisticated, autonomous control. Field output connections are made through a pluggable terminal block which simplifies wiring during system setup and reconfiguration.

Input-to-bus isolation is a robust 1500Vrms and channel-to-channel isolation is 300Vrms. In addition, each channel is protected up to 40Vrms continuous overload in case of inadvertent wiring errors.

Channels in a module can be selectively enabled for output. All channels are enabled by default; however, non-used channels can be disabled to increase the refresh rate of enabled channels.

All MAQ20 modules are designed for installation in Class I, Division 2 hazardous locations and have a high level of immunity to environmental noise commonly present in heavy industrial environments.

Features

- 8 Isolated Output Channels
- Voltage or Current Output
- · All Channels Individually Configurable for Range and Programmable Output
- User-Defined Default Output and Output Waveform
- 1500Vrms Input-to-Bus Isolation
- 300Vrms Channel-to-Channel Isolation
- Each Channel Protected up to 40Vrms Continuous Overload
- Selective Enabling of Module Channels for Refresh

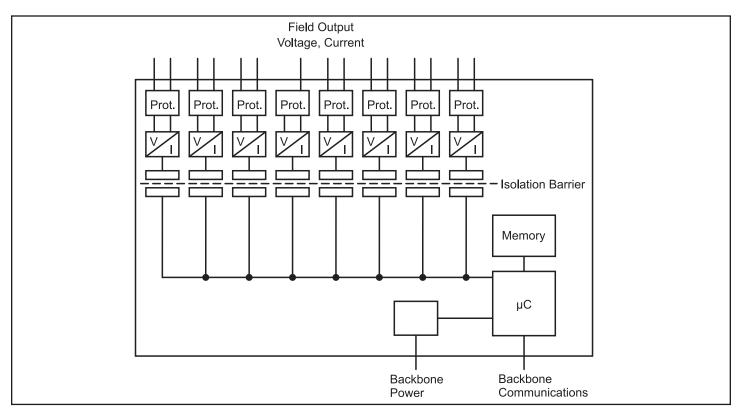


Figure 1: MAQ20 Voltage & Current Output Module Blok Diagram



Specifications Typical* at T_A =+25°C and +24VDC system power

| .14\ |
|------|
| ult) |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| 3mm) |
| |
| |
| |

Ordering Information

| Model | Description |
|----------|--|
| MAQ20-VO | Analog Output Module; Voltage, 8-ch |
| MAQ20-IO | Analog Output Module; Current mA, 8-ch |

| Terminal Block Position (top to bottom) | MAQ20-VO & MAQ20-IO Output Connections |
|---|---|
| 1 | CH0 +OUT |
| 2 | CH0 -OUT |
| 3 | CH1 +OUT |
| 4 | CH1 -OUT |
| 5 | SHIELD |
| 6 | CH2 +OUT |
| 7 | CH2 -OUT |
| 8 | CH3 +OUT |
| 9 | CH3 -OUT |
| 10 | SHIELD |
| 11 | CH4 +OUT |
| 12 | CH4 -OUT |
| 13 | CH5 +OUT |
| 14 | CH5 -OUT |
| 15 | SHIELD |
| 16 | CH6 +OUT |
| 17 | CH6 -OUT |
| 18 | CH7 +OUT |
| 19 | CH7 -OUT |
| 20 | SHIELD |

NOTES:

For output connections and full details on module operation, refer to MA1042 - MAQ20 Voltage and Current Output Module Hardware User Manual, available for download at: www.dataforth.com/maq20_download.aspx.

^{*}Contact factory or your local Dataforth sales office for maximum values.
(1) Includes linearity, hysteresis and repeatability.