

D300 DIGITAL MULTIPLEX SIGNALING MODULES



MASK Systems' D300 Multiplex Signaling Modules offer diverse functionality including adding alarm zones, monitoring points or controlling points by multiplexing signals all on existing wiring.

An expansion or remodeling project may seem promising, but the cost of installing new wiring can destroy the feasibility of the project. In that situation, MASK Systems' solution for multiplexing control and monitoring signals can be used to significantly reduce the cost of wiring. For instance, if there is just one unused pair of wires available, MASK Systems' Series D300 modules could be installed to carry as many as 24 control or monitoring signals without adding any wiring.



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Series D300 models are available with UL approval covering fire, burglary or process control. Typical applications include: remote monitoring of fire alarm systems, remote intrusion alarms, remote control of HVAC systems, remote gate control, and remote pump control.

MASK Systems' multiplexing modules have been used in thousands of installations and have proven themselves reliable for over twenty five years. And now, the D300 Series modules are digitally tuned for drift-free performance and even greater reliability.

- ▶ Provides supervision of inputs for both fire and security applications
- ▶ Operates over a single pair of wires, telephone company leased line, old phone or intercom pair, or any available voice-grade communication channel
- ▶ Does not require a master station
- ▶ Compatible with existing Series S300 or S500 modules
- ▶ Combines the best of frequency and time division multiplexing
- ▶ Includes three levels of error rejection
- ▶ UL and CSFM listings are standard
- ▶ Includes a two year limited warranty
- ▶ New digital circuitry eliminates frequency drift due to temperature or time
- ▶ Provides frequency and throughput speed selection through on-board DIP switches

RELIABILITY, SIMPLICITY AND VALUE

D300

PRODUCT SPECIFICATIONS



FEATURES

- ▶ Modules handle multi-zone security or fire alarms, industrial control or monitoring
- ▶ Supervised security or fire inputs
- ▶ Operates over a single pair of wires, telephone company leased line, old phone or intercom pair, or any available voice-grade communication channel
- ▶ Four frequencies
- ▶ Each transmitter signals to its associated receiver(s); no master station used
- ▶ Communicates with existing Series S300/500 modules
- ▶ Combines the best of frequency and time division multiplexing with three layers of error rejection
- ▶ UL and CSFM listed
- ▶ Two year limited warranty
- ▶ Digital control of frequency eliminates frequency drift
- ▶ On-board DIP switches select frequency, output inversion and throughput speed

SPECIFICATIONS

Model	D312	D316	D318	D321	D322
Input Type	Security	Fire	Industrial	---	---
Output Type	---	---	---	Open Collector	Reed Relay
Power Consumption	60 to 110mA	60 to 110mA	55 to 110mA	65 to 80mA	65 to 240mA
Output Rating	---	---	---	100mA@40VDC,5W	500mA@150VDC,10W
Size	All models are 3.75" wide x 5" long x 1.75" high				
Frequencies	A - 2800 Hz; B - 1650 Hz; C - 980 Hz; D - 580 HZ				
Environmental	0-160°F; 0-95% humidity non-condensing				
Transmission Delay	800mSec. low speed setting, 160mSec. high speed setting				
Power	16VAC 50/60 Hz, with optional 12 VDC backup				
Battery	Built in 12V battery charger, automatic changeover to battery				
Approval	UL and CSFM Listed				
Transmit Level	-4 to -7 dBm				
Receive Level	0 to -30 dBm				

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ACCESSORIES

▶ Product Selection

You'll want to complete your installation with these accessories. Transformers supply 16 VAC for powering modules, while batteries supply backup power to modules. The panel assembly kits provide convenient backplate mounting for modules and include a transformer.

▶ Transformers

Series D300 transmitter and receiver modules are normally powered by 10VA, 12 to 16VAC stepdown transformer. One such transformer is sufficient to power up to four transmitters or receivers at each location. Transformers are available in surface mount or plug-in styles.

▶ Batteries

Series D300 modules come with built-in chargers as standard equipment. An optional 12VDC battery can be connected and used for back-up power. One battery is sufficient to power up to four transmitters or receivers at each location during periods of AC power outage.

▶ Panel Assembly Kits

These kits contain a pre-punched backplate for mounting **Series D300** modules. Kits come with transformer and hardware to mount to the back of a standard user-provided NEMA enclosure. Kits can be ordered with space to fit one to four modules and with vents for battery usage.

RELIABILITY, SIMPLICITY AND VALUE