

For current pricing,
please see our website.

Modular Rack System Piezo Driver with Feedback

Features

- Two Piezo-Actuator Output Channels
- Open- and Closed-Loop Operation
- Strain Gauge Feedback Connections
- USB Plug-and-Play Connectivity
- User Controlled Digital I/O Port
- Full Software GUI Control Suite
- ActiveX® Graphical Panel Controls
- ActiveX® Programming Interfaces
- Seamless Software Integration with apt™ Family



MPZ601

Modular apt™ Piezoelectric Controller

This modular apt™ piezoelectric controller, compatible with the apt™ rack (pages 624 - 625), incorporates the latest high-speed digital signal processing (DSP), low-noise analog electronics, and ActiveX® software technology to provide two low noise, fully software controlled, high-voltage (0-75 V) output channels. These modular controllers are designed for use in larger scale critical alignment applications where nanometer-level motion control is required. The modular apt™ piezo controller is supplied with a full suite of software support tools. An intuitive graphical instrument panel allows immediate control and visualization of the operation of the piezo controllers. See pages 654 - 656 for a full description of the apt™ system software, and the next page for details on the apt™ modular rack system that houses this module.



See pages 654 - 656 for more information on the included apt™ software.

Easily Configured Closed-Loop Operation

Module operation is fully configurable (parameterized) with key settings exposed through the associated graphical interface panel. Open-loop or closed-loop operating modes can be selected quickly. In both modes, the display can be changed to show drive voltage or position (in microns). In the closed-loop operation mode, both the P and I (proportional and integral) components of the feedback control loop can be altered to adjust the servo-loop response. Adjustment of all key parameters is possible through direct interaction with the graphical panel or through the ActiveX® programmable interfaces that are included with each instrument. This allows the user to build automated alignment routines in almost any programming language.

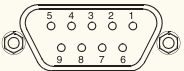
Software Developers Support CD

A developers' kit is shipped with all of our apt™ Series controllers. This additional software is intended for use by software developers working on large system integration projects that incorporate apt™ products. The kit contains an extensive selection of useful code samples as well as tutorial information.

Specifications

- **Piezoelectric Output:**
 - **Two Output Channels:**
 - SMC Male Connector
 - **Voltage Output:** 0 - 75 VDC/Channel
 - **Voltage Stability:** 100 ppm Over 24 Hrs
 - **Noise:** <3 mV_{RMS}
 - **Output Current (Max):** 500 mA/Channel
- **Differential Analog Inputs (BNC):** 0 - 10 VDC
- **Position Feedback (9-Pin D-Type Connector)**
 - **Strain Gauge Feedback**
 - **Voltage Feedback:** 0 - 10 VDC
- **User Input/Output (26-Pin D-Type Connector):**
 - **Two Output Monitors:** 0 - 10 VDC
 - **Two Potentiometer Inputs:** 10-Turn Pots
 - **Trigger Input/Output:** TTL
 - **Digital I/O Lines:** Opto-Isolated
- **General:**
 - **One Slot apt™ Rack**
 - **Dimensions (W x D x H):** 7.5" x 10.6" x 1.97" (190 mm x 270 mm x 50 mm)
 - **Weight:** 3.3 lb (1.5 kg)

Displacement Sensor Input Connector Pin Out



Pin	Description	Return
1	Wheatstone bridge excitation	4 or 6
2	+15 V	4 or 6
3	-15 V	4 or 6
4	Equipment ground	
5	Feedback signal in	4 or 6
6	Equipment ground	
7	Actuator ID signal	4 or 6
8	RS485 NOT (0-5 V)	9
9	RS485 (0-5 V)	8



See pages 624 - 625 for more information on the apt™ rack enclosure.

ITEM #	\$	£	€	RMB	DESCRIPTION
MPZ601	\$ 2,180.00	£ 1,569.60	€ 1,896.60	¥ 17,374.60	apt™ 2-Channel Piezoelectric Drive Module with Feedback