

C-Series IT116G Single-Axis Controller

FEATURES

- ♦ Self-contained single-axis controller
- ◆ Logic & drive in one package
- Bidirectional serial communication at up to 19200 baud
- ♦ LED display on front panel
- ♦ Includes motor cable & communication cable
- ♦ 4 inputs and 4 outputs

- Commands can be executed as a "batch program", or each command can be executed in a commandby-command basis
- All power supplies are built-in and wired up
 Motor 44V / 3.5A
- ♦ Comes fully assembled & **READY TO USE**
- ♦ 32K of on-board battery-backed memory
- Screw terminal connection on rear panel for easy I / O hook-up



MOTION CAPABILITIES

- Linear interpolation at rates up to 10K steps / sec.
- Motions up to \pm 8,000,000 steps
- Switch-settable acceleration
- Can be programmed in both incremental and absolute coordinates

STEPPER AMPLIFIERS

- The Stepper Motor Amplifier can produce up to 3.5A at 44V
- Total fault protection against:
 - Short circuit across phases
 - Short circuit to ground
 - Over / under voltage
 - Overtemperature

NOTE: This controller is CE compliant.



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APPLICATIONS

This controller is for light- to medium-duty applications. Note that since the motors will be powered with 3.5A peak current, the load and force specifications should be correspondingly reduced.

The IT116G Controller consists of:

- 1 IT116G Controller with integral drive
- 1 Motor cable
- 1 Communication cable

Catalog Number	Part Description	Dimensions mm	Weight Ibs
HL1300MIT116G	IT116G Single-Axis Controller	105 wide X 110 high X 165 deep	4.5

SOFTWARE / PROGRAMMING

- Direct control through simple ASCII codes.
- Can be programmed via many third-party software packages.



COMMAND SUMMARY

Description

Program Mode

Description

0 Sx, Gx, SyGz2	Incremental motion
3 <number>, <offset></offset></number>	Make a loop, or branch if <number>=0</number>
6 Sx, Gx, SyGz2	Move until impulse
7 <axes></axes>	Home motors, x=1, y=2, z=4
mSx, Gx, SyGz2	Move absolute
eS	Select interpolation axes/plane: 0=x/y, 1=x/z, 2=y/z
f	Set direction of circular interpolation
у	Peform circular interpolation