

TELEDYNE HASTINGS

DIGITAL THPS-400 4-Channel Power Supply & Totalizer

INSTRUMENTS

FEATURES

- Four channels of simultaneous display
- Independent channel programmability
 - Display
 - Flow
 - Pressure
 - Totalizer
 - Filtered Readings
 - Gas ID
 - Units-of-Measure
 - Totalizer set points w/count-up and countdown capability
 - High & low set-points
 - Analog I/O
 - 0 - 5 VDC
 - 0 - 10 VDC
 - 4 - 20 mA
- Analog signals available on back panel
- Ratio control
- User selectable AC input
- RS232/485
- LabView® drivers available

APPLICATIONS

- Secondary calibration reference
- Fuel cell testing
- Pharmaceutical production
- Gas generators
- Thin Film processes
- Gas Blending



THPS-400



THPS-400 can be used with all
Teledyne Hastings' Flow Instruments

DESIGN FEATURES

The THPS-400 is Hastings Instruments' newest power supply. This digital 4-channel instrument replaces the old analog version of the Model 400 and 200 but maintains the half-rack profile for simple drop-in replacement of older units. The new THPS-400 incorporates, as standard, features that were optional or non-existent on the previous models.

These new THPS-400 features include integrated totalizer with count-up or countdown options, user selected filtering of readings, RS-232, RS-485, simultaneous display of all four channels or selective blanking of unused channels, and ratio control with analog outputs for stacking multiple power supplies. There is also an easy-to-follow, menu-driven calibration and setup. The unit is packaged in an all-metal enclosure with a bright vacuum fluorescent display.

The digital design of the THPS-400 allows the user to set both the minimum and maximum display values corresponding to specific voltage or current inputs. One advantage of this approach is that it negates the need to access hard to reach transducers to re-zero them. Should the analog signal from the transducer change due to zero shift, the digital counts seen by the THPS-400 can be changed to display zero either manually from the front panel or via serial communication with the unit. This should be especially attractive to OEM manufacturers.

Full scale display values are also easy to change to accommodate transducers with various ranges. Changing the full scale display is so easy, in fact, that it almost makes a scaling factor unnecessary. Still, at the request of many of our customers, a scaling factor feature has been included and can be applied to each individual channel.

DIGITAL THPS-400

ACCESSORIES

Cables:

H Pin Out

Description	Stock #
8 ft	65-149
25 ft	65-148
50 ft	65-160
100 ft	65-193

U Pinout

Description	Stock #
8 ft	65-791

Edge Card

Description	Stock #
8 ft	81-153
25 ft	81-154
50 ft	81-155
100 ft	81-156

THPS-400 SPECIFICATIONS

Accuracy	±0.2% of F.S.
Repeatability	±0.1% of F.S.
Input	90-125/180-250 VAC 50/60 Hz
Output	±15 VDC, 250 mAmps Max.
Operating Temperature	-20° to 70°C
Zero Temperature Coefficient	< 0.05% /°C of F.S.
Standard Operating Ranges	0-5 VDC, 0-10 VDC, 250 mA max. per channel
Connector Types	15-pin sub-D, Transducers 9-pin sub-D, Serial 26-pin HD- D, Alarm 9-pin HD-D, Analog Out
Meter	5 Digit programmable resolution
Weight	5 Lb

Hastings Instruments reserves the right to change or modify the design of its equipment without any obligation to provide notification of change or intent to change.

ORDERING INFORMATION

Stock No.	Model No.	Description
THPS-400	THPS-400	4-Channel Power Supply

Factory settings*:

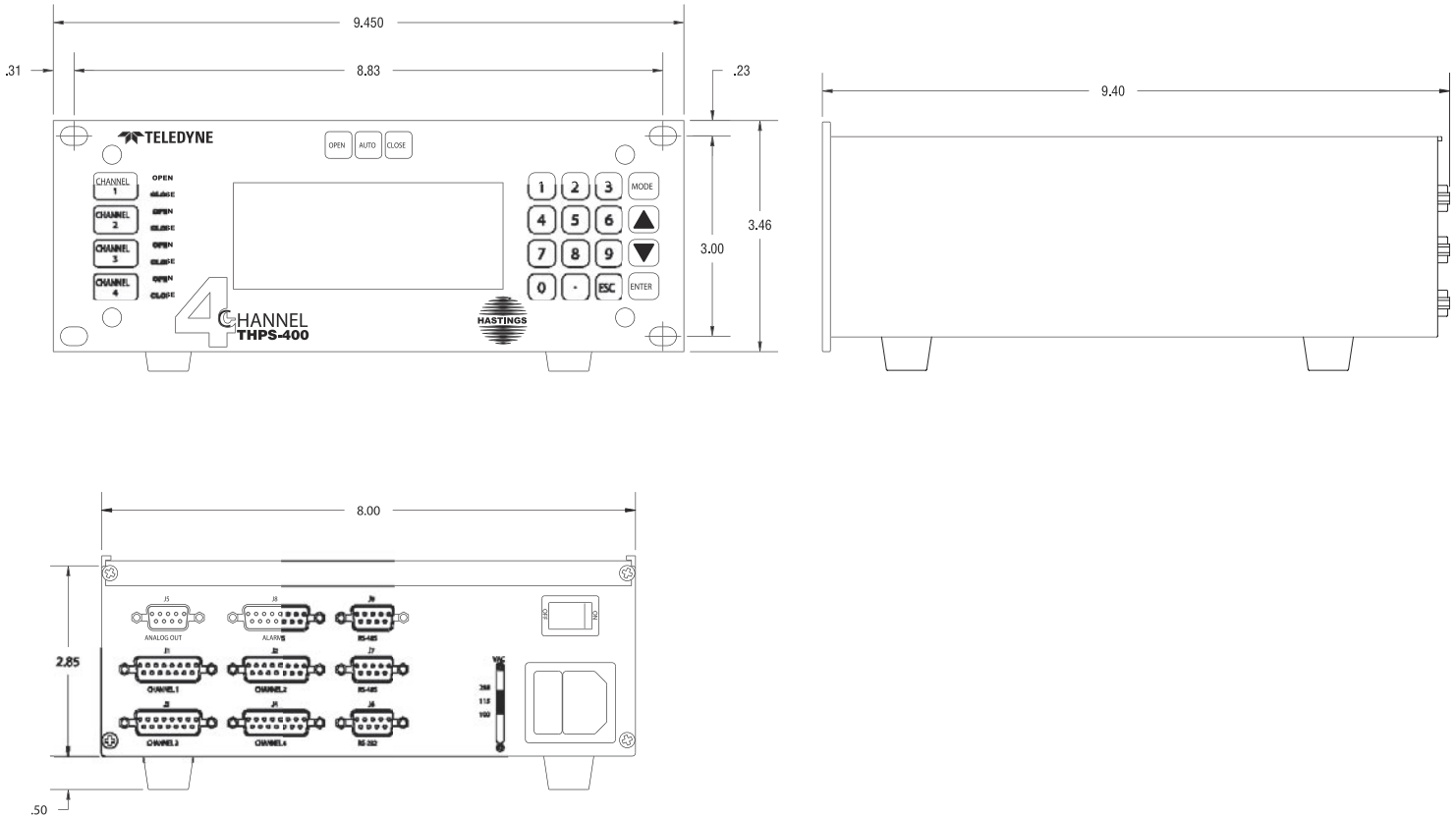
Input Voltage	115	VAC
Display Zero	0	SCCM
Display 100%	100	SCCM
High Set Point	90	High flow alarm
Low Set Point	10	Low flow alarm
A/D Conversion Rate	15	Hz
Multiplication Factor	1.0	Applied to reading
Analog I/O	0 - 5	VDC

Order codes

Standard unit: THPS-400-XXX, where XXX is supply voltage
THPS-400-115
THPS-400-230
THPS-400-100 (Japan)

*Specify custom set-up when ordering.

DIGITAL THPS-400



Your Customer Service Representative



TELEDYNE INSTRUMENTS

Hastings Instruments
A Teledyne Technologies Company

Telephone: (757) 723-6531
Toll Free: (800) 950-2468
Fax: (757) 723-3925
World Wide Web: <http://www.teledyne-hi.com>
E-mail: hastings_instruments@teledyne.com
P.O. Box 1436
Hampton, VA 23661