



## ANSI Integra 0340 Series

The Integra 0340 is designed for simplified feeder applications where minimal data is required by the end user. This simple to use meter provides accurate measurement and display of up to 11 electrical parameters including voltage and current for the system, plus line-to-line and line-to-neutral measurements. The 0340 has programmable voltage and current transformer ratios and true rms indication for accurate measurement of distorted waveforms. Measurements can be viewed through 4 screens via a high visibility LED display. Integra 0340 presents an invaluable tool for all power monitoring applications.

### Features

- Measurement and display of voltage and current
- True rms measurement
- Fully programmable VT and CT ratios
- Simple menu driven interface
- ANSI case style
- High quality LED display

### Benefits

- Replaces multiple single function instruments
- Simple menu driven interface
- Monitoring, control and protection of power assets

### Applications

- Switchgear
- Feeder panels
- Distribution systems
- Generator sets
- Control panels
- Utility power monitoring
- Motor monitoring

### Approvals

- UL file no: 140758
- IEC 1010 / BSEN 61010-1

### Operation

A two-button interface on the front panel of Integra 0340 units provides simple programming of VT and CT ratio settings and selection, configuration and adjustment of operating parameters. To prevent unauthorised access to configuration settings, all set-up screens offer password protection. Once configured, status information can be viewed by scrolling through 4 screens featuring a high contrast 3-line, 4-digit LED display, with separate annunciators for each of the 11 measured parameters.

### System Input

Designed for all low, medium and high-voltage switchgear and distribution systems, the Integra 0340 offers programmable VT and CT ratio capability. Direct connected up to 600V ac with 5A CT inputs as standard, and 1A CT inputs available as an option.

### Programmable Parameters

Parameter	Range
Password	4-digit 0000-9999
Primary current	Max 9999:5 (360MW max**)
VT primary	400kV (360MW max**)
VT secondary	Set to correspond to secondary value

### Product Codes

Product code	Product configuration
INT-0344-***-5-*	Integra 0340 3-phase 4-wire 5A CT input
INT-0343-***-5-*	Integra 0340 3-phase 3-wire 5A CT input
<b>Input voltage suffix***</b>	
ELV	100-120V L-L (57.7-69.3V L-N)
LOV	121-240V L-L (70.1-139V L-N)
MIV	241-480V L-L (140-277V L-N)
HIV	481-600V L-L (278-346V L-N)
<b>Auxiliary voltage suffix*</b>	
L	12-48V dc
M	100-250V ac/dc

### Order Code Example

#### INT-0344-MIV-5-L

Integra 0340 3-phase 4-wire, 241-480 V L-L voltage, 5A CT input, 12-48V dc auxiliary supply.



## Specifications

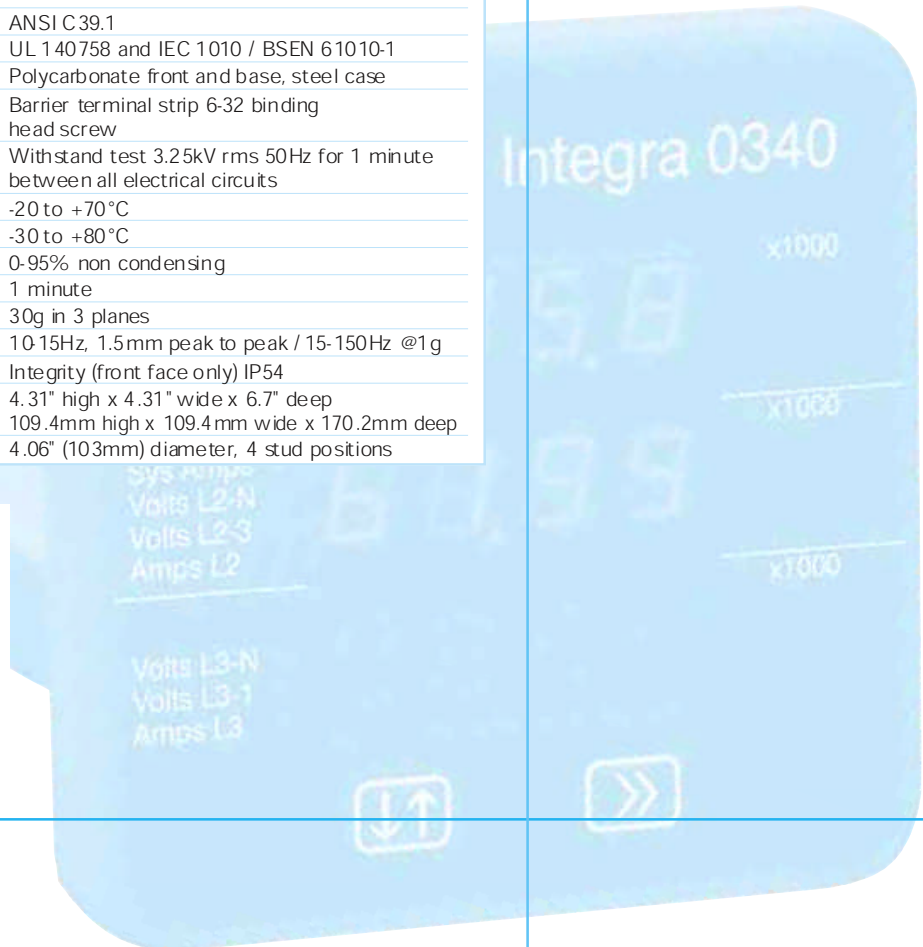
Input	
Nominal input voltage:	57.7 to 346V L-N, 100 to 600V L-L
Max continuous input voltage:	120% nominal
Max short duration input voltage:	2 x for 1 second, repeated 10 times at 10 second intervals
System VT ratios (primary):	400kV or 360MW **
Nominal input voltage burden:	< 0.2VA
Nominal input current:	5A (1A option)
System CT primary values:	9999:5A or 9999:1A max 360MW **
Max continuous input current:	120% nominal
Max short duration current input:	20 x for 1 second, repeated 5 times at 5 second intervals
Nominal input current burden:	< 0.6VA
	** maximum VT or CT ratios are limited so that the combination of primary voltage and current do not exceed 360MW at 120% of relevant input.
Auxiliary	
Standard nominal supply voltage:	100-250V ac or dc +/- 15% (85-287V ac Absolute) (85-312V dc Absolute)
AC supply frequency range:	45-66Hz
AC supply burden:	6VA
Optional auxiliary dc supply:	12-48V dc (10.2-60V dc Absolute)
DC supply burden:	6VA
Measuring ranges	
Voltage:	70-120% of nominal (functional 40-120%)
Current:	5-120% of nominal
Accuracy	
Voltage:	±0.1% of range ±0.4% of reading
Current:	±0.1% of range ±0.4% of reading
Temperature coefficient:	0.013%/°C typical
Update time:	500ms display
Enclosure	
Enclosure style:	ANSI C39.1
Compliant with:	UL 140758 and IEC 1010 / BSEN 61010-1
Material:	Polycarbonate front and base, steel case
Terminals:	Barrier terminal strip 6-32 binding head screw
Dielectric voltage:	Withstand test 3.25kV rms 50Hz for 1 minute between all electrical circuits
Operating temperature:	-20 to +70°C
Storage temperature:	-30 to +80°C
Relative humidity:	0-95% non condensing
Warm-up time:	1 minute
Shock:	30g in 3 planes
Vibration:	10 15Hz, 1.5mm peak to peak / 15-150Hz @1g
Enclosure:	Integrity (front face only) IP54
Dimensions:	4.31" high x 4.31" wide x 6.7" deep 109.4mm high x 109.4mm wide x 170.2mm deep
Panel cut-out:	4.06" (103mm) diameter, 4 stud positions

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## Measurement and Display

Measurement of up to 11 electrical parameters can be programmed and displayed on the Integra 0340 unit.

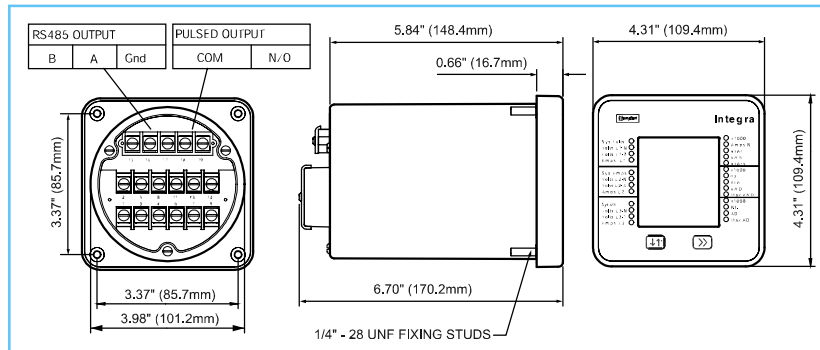
- 1 System volts  
System current
- 2 Volts L1-N (4-wire only)  
Volts L2-N (4-wire only)  
Volts L3-N (4-wire only)
- 3 Volts L1-L2  
Volts L2-L3  
Volts L3-L1
- 4 Current L1  
Current L2  
Current L3



# ANSI Integra Digital Metering

## Dimensions

Integra 1540, 1000, 0640, 0440 and 0340



Integra 1540



Integra 0640

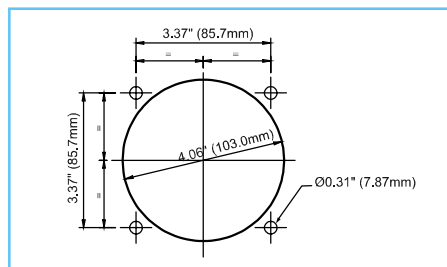


Integra 0440



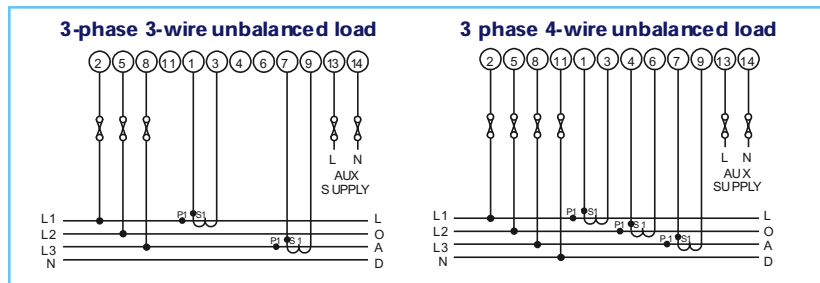
Integra 0340

## Panel cut-out



## Wiring

Input connections are made to screw-clamp terminals. Terminals for both current and voltage connections are sized to accept two #12 AWG (3mm<sup>2</sup>) solid or stranded wires, or ring lugs suitable for 6-32 screws. Connections for communications and pulse outputs use identical style terminals.



## Auxiliary Supply

The Integra family should ideally be powered from a dedicated supply, either 100-250V ac or dc (85-280V ac Absolute or 85-312V dc Absolute) or 12-48V dc (10.2-60V dc absolute). However the device may be powered from the signal source, provided the source remains within the working range of the chosen auxiliary supply.

## Fusing

It is recommended that all voltage lines be fitted with 1 amp fuses.

## Safety / Ground Connections

For safety reasons, all CT secondary connections should be grounded in accordance with local regulations.

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