

Crompton Digital Metering Systems

Integra 510

- 3 Line 4 Digit LCD Display
- Self or Externally Powered
- Programmable CT Ratios (1-8000A)
- Setup Password Protection
- IP54 Front



Integra 510 ▶

Display up to 12 electrical parameters on 4 screens:

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

SPECIFICATIONS

Max Input Voltage:	120% of nominal continuous, 2x for 1 sec.
Input Voltage Burden:	0.2 VA per line, nominal
Max Input Current:	120% of nominal continuous, 20x for 1 sec.
Input Current Burden:	0.6 VA per phase, nominal
Auxiliary Supply	
Tolerance:	-10%, +20% of nominal range
Frequency Range:	45 - 66Hz
AC Supply Burden:	3VA
Measuring Range	
Voltage (Self Powered):	75 - 125% of nominal
Voltage (Aux. Powered):	2.5 - 120% of nominal
Line-Line Voltage, 4 Wire:	0 - 10% difference in phase voltage
Current:	2.5 - 120% of nominal
Frequency Range:	45 - 66Hz
Accuracy	
Voltage:	1.5% of nominal
Current:	1.5% of nominal
Frequency:	0.5% of mid frequency
Operating Temperature:	-10 to +70°C, <95% RH non-condensing
Storage Temperature:	-20 to +80°C
Enclosure:	Polycarbonate UL94V-0/V-2
Terminals:	M3.5 captive screw clamp
Compliance:	UL3111-1, IEC1010-1 CAT III, IEC688:1992
Dimensions:	96mm x 96mm x 112mm deep
Panel Cut Out:	92mm x 92mm (3.62" x 3.62")

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: CR/244-513W-10LS-10

A - **B** - **C**

A Basic Unit	
CR/244-513W	3 phase 3 wire
CR/244-514W	3 phase 4 wire
B Measured Input Range	
10LA	100-120V L-L (58-69V L-N), 1A CT
19LA	190-240V L-L (110-139V L-N), 1A CT
38LA	380-480V L-L (219-277V L-N), 1A CT
10LS	100-120V L-L (58-69V L-N), 5A CT
19LS	190-240V L-L (110-139V L-N), 5A CT
38LS	380-480V L-L (219-277V L-N), 5A CT
C Auxiliary Supply	
SP	Self powered
10	100 - 120V AC
19	190 - 240V AC
38	380 - 480V AC

Integra 640

- Display Voltage, Current & Frequency
- True RMS Measurement
- Fully Programmable PT and CT Ratios
- Simple Menu Driven Interface
- ANSI Case
- Bright LED Display



Integra 640 ▲

Display up to 12 electrical parameters on 4 screens:

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

SPECIFICATIONS

Max Input Voltage:	120% of nominal continuous, 2x for 1 sec.
Input Voltage Burden:	0.2 VA per line, nominal
Max Input Current:	120% of nominal continuous, 20x for 1 sec.
Input Current Burden:	0.6 VA per phase, nominal
System PT (primary):	400kV or 360MW max
System CT:	9999:5A or 360MW max
Auxiliary Supply	
AC Supply:	100 - 250V AC or DC nominal (85 - 287V AC Absolute) (85 - 312V DC Absolute)
Frequency Range:	45 - 66 Hz
DC Supply:	12 - 48V DC (10.2 - 60V DC Absolute)
Supply Burden:	6VA
Measuring Ranges	
Voltage:	70 - 120% of nominal (functional 4 - 120%)
Current:	5 - 120% of nominal
Frequency:	45 - 66Hz
Accuracy	
Voltage:	±0.1% of range ±0.4% of reading
Current:	±0.1% of range ±0.4% of reading
Frequency:	0.15% of mid frequency
Operating Temperature:	-20 to +70°C, <95% RH non-condensing
Storage Temperature:	-30 to +80°C
Enclosure:	Polycarbonate front and base, steel case
Terminals:	Barrier terminal strip, 6-32 screw
Compliance:	UL140758, IEC 1010, IP54 (front face)
Dimensions:	4.31" high x 4.31" wide x 6.7" deep
Panel Cut Out:	4.06" (103mm) diameter, 4 stud positions

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: CR/INT-0643-MIV-5-L

A - **B** - **C** - **D**

A Basic Unit	
CR/INT-0644	Integra 0640, 3 phase 4 wire
CR/INT-0643	Integra 0640, 3 phase 3 wire
B Input Voltage	
ELV	100 - 120 V L-L (57.7 - 69.3V L-N)
LOV	121 - 240 V L-L (70.1 - 139V L-N)
MIV	241 - 480 V L-L (140 - 277V L-N)
HIV	481 - 600 V L-L (278 - 346V L-N)
C Input Current	
5	5A CT input
D Auxiliary Supply	
10	100 - 120V AC
19	190 - 240V AC