Infra Power®

Inline Meter



Smarter Design • Faster Delivery • Better Performance



Rack Basic Power Monitoring

Server racks equipped with basic PDU are very common in nowaday's data centers. However, real time power monitoring is becoming a more important feature of rack PDU.

InfraPower Inline Meter is the most effective PDU enhancement approach to upgrade your basic PDUs with local monitoring plus remote management.



Sophisticated W Meter

Infra Power[®] intelligent PDUs are supplied with a sophisticated meter. The W meter provides not only local metering, but also daisy chain connection ports to connect up to 32 PDUs and 2 optional external sensors.

The meter is hot swappable and field replaceable without needing to power down the PDU or attached mission critical equipment.

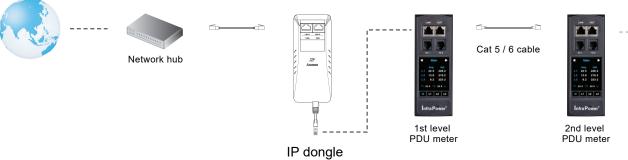






Daisy Chain Cascades up to 32 Levels

InfraPower Inline Meter not only provides the local power monitoring, but also the connection ports for daisy chain. Each Inline Meter just simply to be connected in series to the next by Cat 5 / 6 cables. Maximum 32 Inline Meters are supported in one daisy chain group.



Remote PDU Management Over IP

PDU remote management benefits users with capacity planning and overall data center efficiency. InfraPower Inline Meter offers 3 kinds of remote management solutions for users' selection :

- IPM-04 Management Software
- Built-in GUI
- · Integration to 3rd Party DCIM via SNMP

	IPM-04 Features	
Capacity	IP Dongle Group (Just 1 for 32 Meter levels)	50
	PDU (Inline Meter) Number	1600 / 800
	Concurrent Users	5
Enhanced	Energy Consumption (kWh) Monitoring	~
Features	Apparent Power (kVA) Monitoring	~
	Power Factor Measurement	~
Basic	Aggregate Current (Amp) Monitoring	~
Features	Temp-Humid Monitoring	~
	Alarm Threshold Setting	~
	Rising Alert Threshold	~
	Remote Access via Web	~
	Graphic User Interface	~
	Reporting	~
PDU Series	Single Phase - 230V / 208V / 110V	~
Support	Three Phase - 400V / 208V	~



Final level

PDU meter

PDU Monitoring

L1 - B1		Voltage :	211.0	Alarm amp :	13.0
		Max. amp :	10	Rising alert amp :	0.0
		Load amp :	0.0	Low ale1 amp :	0.0
Peak amp :	0.1	2015/01/09 12	17.57		Report
kWh :	0.04	2015/01/05 22	120:49		Real
L2 × 80		Voltage :	217.4	Alarm anp :	13.0
		Max. amp :	10	Rising alert amp :	3.0
		Load amp :	0.0	Low ale1 amp :	0.0
Peak amp :	8.2	2015/01/00 13	21.94		Real
kWh :	0.04	2015/01/05 23	139:12		Paul
L3 - 86		Voltage :	214.0	Alarm amp :	13.0
		Max. amp :	16	Rising alert amp :	0.0
		Load amp :	0.0	Low alert amp :	0.0
Peak amp :	8.2	2015/01/09 13	10.24		Faset
kWh :	0.02	2015/01/05 22	109-30		Faset

Temp. & Humid. Monitoring

POU level						
					10	
					*	
Owne	Time	Model	294a	Cocation	Temp. / Alarm. I.R. Alert	Humid/Atam IR, N
2018/02/18	101344	VI2CID/CID/IBA/W	Connected	Part, Tep	23.3 / 38.0 / 0.0	817 / 850 / 02
2015/02/18	150240	V12C130C12-IBA-IV	Connected	From, Top	25.8 / 25.6 / 0.0	110 / 010 / 01
2010/00/18	14.03.42	VIDCID/CID-ISA/W	Connected	Post, Tap	23.3 / 35.0 / 0.0	822 / 650 / 03
2015/02/18	144245	V12C134C19-IBA-W	Connected	Front, Tap	23.3 / 36.0 / 0.0	124 / 050 / 03
2015/02/18	1433.40	VI2CIS/ICID/IBA/W	Converted	Front_Tao	253 / 350 / 00	826 / 860 / 03
2015-0218	14,23.00	V12013-0019-18A-W	Connected	Front, Top	253 / 358 / 0.0	12.0 / 05.0 / 0.0
20150218	14 13 30	VIDEISBERH-IBAW	Connected	front_Tap	23.3 / 35.6 / 0.0	sto r etc r at
2010/00/18	14 00 07	VI20134019-18A-W	Connected	Front, Top	253 / 250 / 0.0	811 / 610 / 01
2015/0018	13.63.56	VIDCIDECID-IBA-W	Connected	Fran, Tap	23.3 / 35.0 / 0.0	#11 / #10 / 01
2045-0218	1243.55	V12CISHCH2-IBAUV	Connected	front_Top	253 / 350 / 0.0	851 / 850 / 03
2015/00/18	13 23 24	VIDCID/CID-IDA-W	Connected	Fort, Tap	23.4 / 35.0 / 0.0	E3.3 / et.0 / 0.5
2018/02/18	13-25-55	VIDERSBEIGHBAW	Connected	Front, Tap	214 / 38.0 / 0.0	#14 / #40 / 01
2015/0018	131332	V12C130C18-IDA-IV	Connected	Front, 700	23.4 / 25.0 / 0.0	513 / etc / 01
2018/02/18	13 68 31	VI2CIS/8CI9-IBA/W	Connected	Part, Tap	23.4 / 38.0 / 0.0	83.2 / 65.0 / 0.2
2015/02/18	1253:90	V120130019-104-IV	Connected	Front, Top	254 / 250 / 0.0	410 / 410 / 01
2010/00/18	12 43 29	VIDCID/0CID-IBA/W	Connected	Fort, Tap	23.3 / 35.0 / 0.0	#10 / etc / 01
2015/0218	1210-29	V12013-0019-18A-W	Connected	Front Tap	23.3 / 26.0 / 0.0	127 / 650 / 00

Reporting

						Circuit B
Dele	Tree	Model	Name	Location	Salue	Max. / Load / Narm-78, abot / L. abot
2010/0210	12 10 22	VORCEBRICEHEA-IN	Wee-dia	Rack, JOH	Connected	18 / 60 / 180 / 00 / 60
2010/0210	823821	VOID13-0019-054-IV	Wee-dda	Pace, 204	Connected	18 / 60 / 130 / 53 / 60
0+000+0	821020	VORCEBRICEHEIA-IN	WAR-COA	Rect, Kin	Conversed	18 / 60 / 180 / 88 / 60
3210-0210	82.08.19	VINCEDUCEDERAIN	WHR-BSA	Fact, SDF	Connected	18 / 60 / 150 / 80 / 60
10.000	21.55.53	VOICESSCERAGEN	WAR-6DA	Rect, XX	Connected	18 / 60 / 180 / 50 / 60
2010/0210	2140.10	VOICESUCED-BLAIN	WALKER.	Face, 204	Converted	18 / 60 / 130 / 00 / 60
30100210	013015	VHCIDICIDIEA/V	usedia.	Race_Sile	Connected	18 / 60 / 180 / 00 / 60
2010/0210	010014	VINCIDICIDATIAN	1988-65A	Fact, 201	Converted	18 / 60 / 130 / 00 / 60
2010/0210	211015	VOICESICENSIA-IN	Wee-dda	Rack, 204	Committed	18 / 60 / 138 / 58 / 60
2010/02/10	010812	VOIC130C1345A-IV	WHE-DDA	Rade, 20H	Conneilled	18 / 60 / 130 / 33 / 60
221012210	00.00.71	VOICTBRCTHESA-IV	1988-65A	Park 201	Connected	10 / 60 / 130 / 50 / 60
20101010	10.40.10	VINCTRACTIONALIN	WAR-EDA	Party JON	Convented	18 / 60 / 180 / 00 / 60
010010-00	101019	VINCEBROOKAN	Wee-ODA	Pack 204	Converted	18 / 60 / 120 / 00 / 60
20-010-10	10.00.04	VOICEBROCEBREAKY	WAR-COA	Rect, MA	Connected	10 / 60 / 100 / 00 / 60
38161213	8816.06	VINCESSCREEKAV	WAR-SSA	Fact, STA	Connected	18 / 60 / 180 / 80 / 60
30.000.00	1008-06	VOICEBBCIDADAUN	WAR-65A	Rent, SDA	Comunet	18 / 60 / 180 / 90 / 60
2010/02/00	23.50.04	VOIC430C4245A-IV	WAR-SSA	Face, 204	Connected	18 / 60 / 130 / 00 / 60
10 10 10 10	25 40 05	VOICIBICIDATIAN	tree-dia	Race, Sile	Connected	18 / 60 / 180 / 50 / 60
2010020	20.36.02	VINCIDICIDATIANY	1988-654	Fam. 201	Converted	18 / 00 / 130 / 00 / 00
2010/02/00	23,20.01	VOICTBRCTB-RDA-IN	tree-dos	Facts (204	Committed	18 / 60 / 130 / 50 / 60
22101220	23.10.00	VOICT20CT2-ESA-IN	1044-024	Fact 204	Converted	18 / 60 / 130 / 00 / 60

Cascades up to 32 Inline Meters using low cost Cat5/6 cables

Single Phase

Dual Feed Inline Meter

230V Model	Amp	Inlet (Male)		Outlet (Fema	ale)
DEW-16A_EN	16A → 16A	16A EN	x 2	16A EN	x 2
DEW-32A_EN	32A → 32A	32A EN	x 2	32A EN	x 2

208V Model	Model Amp Inlet (Male)		Inlet (Male)		ale)
DEW-20A_L620	20A → 20A	L6-20P	x 2	L6-20C	x 2
DEW-30A_L630	30A → 30A	L6-30P	x 2	L6-30C	x 2

110V Model	Amp Inlet (Male) Outlet		Inlet (Male)		ale)
DEW-15A_515	15A → 15A	15A 5-15P	x 2	15A 5-15R	x 2
DEW-20A_520	20A → 20A	20A 5-20P	x 2	20A 5-20R	x 2
DEW-20A_L520	20A → 20A	20A L5-20P	x 2	20A L5-20R	x 2
DEW-30A_530	30A → 30A	30A 5-30P	x 2	30A 5-30R	x 2
DEW-30A L530	30A → 30A	30A L5-30P	x 2	30A L5-30R	x 2

* 1.5m cordset standard for inlet & outlet. Specific cordset length available.

** Bundled Inline Meter mounting kit supports rackmount or vertical mount.

Single Feed Inline Meter

-			
230V Model	Amp	Inlet(Male)	Outlet(Female)
EW-16A_EN	16A → 16A	16A EN	16A EN
EW-32A_EN	32A → 32A	32A EN	32A EN
208V Model	Amp	Inlet (Male)	Outlet (Female)
EW-20A_L620	20A → 20A	L6-20P	L6-20C
EW-30A_L630	30A → 30A	L6-30P	L6-30C
110V Model	Amp	Inlet(Male)	Outlet(Female)
EW-15A_515	15A → 15A	15A 5-15P	15A 5-15R
EW-20A_520	20A → 20A	20A 5-20P	20A 5-20R
EW-20A_L520	20A → 20A	20A L5-20P	20A L5-20R
EW-30A_530	30A → 30A	30A 5-30P	30A 5-30R

30A L5-30P

30A L5-30R

Three Phase

Dual Feed Inline Meter

400V Model	Amp	Inlet(Male)		Outlet (Fema	ale)
DPW-16A_EN	16A → 16A	16A EN	x 2	16A EN	x 2
DPW-32A_EN	32A → 32A	32A EN	x 2	32A EN	x 2
DPW-63A_EN	$63A \rightarrow 63A$	63A EN	x 2	63A EN	x 2

208V Model	V Model Amp Inlet (Male)		Outlet (Fema	ile)	
DPW-20A_L1520	20A → 20A	20A L15-20P	x 2	20A L15-20C	x 2
DPW-20A_L2120	20A → 20A	20A L21-20P	x 2	20A L21-20C	x 2
DPW-30A_L1530	30A → 30A	30A L15-30P	x 2	30A L15-30C	x 2
DPW-30A_L2130	30A → 30A	30A L21-30P	x 2	30A L21-30C	x 2
DPW-50A_CS8365C	50A → 50A	50A CS8365	x 2	50A CS8364	x 2
DPW-60A_EN	60A → 60A	60A EN	x 2	60A EN	x 2

* 1.5m cordset standard for inlet & outlet. Specific cordset length available.

** Bundled Inline Meter mounting kit supports rackmount or vertical mount.

Single Feed Inline Meter

30A → 30A

EW-30A_L530

400V Model	Amp	Inlet(Male)	Outlet (Female)
PW-16A_EN	16A → 16A	16A EN	16A EN
PW-32A_EN	32A → 32A	32A EN	32A EN

208V Model	Amp	Inlet(Male)	Outlet (Female)
PW-20A_L1520	20A → 20A	L15-20P	L15-20C
PW-20A_L2120	20A → 20A	L21-20P	L21-20C
PW-30A_L1530	30A → 30A	L15-30P	L15-30C
PW-30A_L2130	30A → 30A	L21-30P	L21-30C
PW-50A_CS8365C	50A → 50A	CS8365	CS8364
PW-60A_EN	60A → 60A	60A EN	60A EN

1-PH 230V Inlet
60309
٢

 \odot

)	
V Inlet	
9	

1-PH 208V Inlet		
L6-30P	L6-20P	
٢	٢	

3-PH 208V Inlet					
60309	CS8365C	L15-30P	L21-30P	L15-20P	L21-20P

1-PH 110V Inlet				
L5-30P	5-30P	L5-20P	5-20P	5-15P
٢	r	٢	-1	

Specifications

Electrical	1-Phase	3-Phase		
Nominal input voltage	110V / 208V / 400V	208V / 400V		
Input frequency	50 / 60Hz			
Inlet & output cordset	1.5-meter cord			
Local display	Field replaceable 2.8" color LCD with touchscreen			
Bank measurement	Voltage (V), Current (A), energy (kWh) & power factor			
Accuracy	±1% Billing-grade			
IP Access	via IP dongle, one IP access up to 16 PDU levels			
Cascade	Up to 16 PDU under single IP address via IP dongle			
SNMP	V2 / V3 via IP dongle			
Sensor port x 2	Temp. Sensor / Temp. + Humid. Sensor			

Physical		1-Pł	nase	3-Phase		
Thysical	Filysical		Dual feed	Single feed	Dual feed	
Product (WxDx	(H) mm	350 x 60 x 90	437.5 x 60 x 90	350 x 60 x 90		
	inch	13.8 x 2.4 x 3.5	17.2 x 2.4 x 3.5	5 13.8 x 2.4 x 3.5		
Net weight	kg / lb	2/4.4	2.5 / 5.5	3 / 6.6		
Packing (WxDxH) mm		525 x 235 x 80				
	inch	20.7 x 9.3 x 3.1				
Gross weight	kg / lb	2.3 / 5.1	2.8 / 6.2	3.3 /	7.3	
Extrusion color		Dark				
Extrusion materia	als	Aluminum				

Environmental	
Operating temperature	-5 to 60°C degree (23 to 140°F)
Storage temperature	-25 to 65°C degree (13 to 149°F)
Operating humidity	8~95%, non-condensing
Storage humidity	8~95%, non-condensing

· US & worldwide patents

- Auto-negotiable 2 x Gigabit Ethernet port
- Dual LAN network failover
- · Capability to access two separate networks
- Supports up to 32 daisy chained PDUs
- Saves cost on IP addresses
- SNMP capability v2/v3
- · Simultaneous software applications -IPM-04, Built-in GUI & SNMP

Details

4.3" Door Mount PDU Panel

- 4.3" color LCD touchscreen
- Auto-negotiable 2 x Gigabit Ethernet ports
- Connect two PDU meters to display power, sensor status
- · Enhance racks with information display
- · No damage required to doors
- · Plug & play

Details

Smoke Sensor

- Smoke Sensor w/ 1M or 3M cord
- · When smoke alarm triggers, sensor red LED lights on with beep sound continuously

WiFi Kit

Compliance EMC

Safety Environment

- Connect to IPD-03-S / IPD-H03-S IP Dongle
- 802.11 g/n/ac WiFi
- · Low-profile design wireless athena
- Magnetic base design for tool-less affix

FCC & CE CE / LVD

RoHS3 & REACH

• 3 ft cord w/ USB port

Details



Temp. & Humid. Sensor Temp. Sensor

- Plug & play
- External sensor with 2M or 4M cord
- · Low profile design with magnetic base for easy affixing to the rack

IG-TH01-2M/4M IG-T01-2M/4M

IPD-WIFI



Door Sensor

- Mechanical door sensor w/ 2M cord
- Cost efficient integration into rack

IP-DSW-2M/4M



IP Access

IP-ED-01

IP-S01-1M / 3M

IPD-03-S





Founded in 1995, Austin Hughes is a design and manufacturing group that offers a broad range of solutions based around 19-inch rack mount technology. These solutions include UltraRack IT server rack, InfraRack smart rack, InfraPower rack PDU & ATS, InfraCool rack cooling systems, InfraGuard rack sensors and peripherals, InfraSolution rack access control and CyberView rack LCD KVM switches. We also offer industrial & commercial IT products, such as UltraView professional displays and Mini IP solutions.

Austin Hughes has ISO14001 and ISO9001 approved design, manufacturing, assembly, and test facilities. We support a worldwide customer base through our global locations.

TAA

As a leading global IT manufacturer, Austin Hughes provides TAA-compliant data center solutions, manufactures and assembles products in strategic TAA-certified locations.





AUSTIN[®] HUGHES

Visit our Website 🕨



Americas

Austin Hughes Solutions Inc. 21375 Cabot Blvd Hayward, CA 94545 United States

inquiry-americas@austin-hughes.com

EMEA

Austin Hughes Europe Ltd. Unit 1, Chancery Gate Business Centre Manor House Avenue Southampton, SO15 0AE United Kingdom

inquiry-emea@austin-hughes.com

APAC

Austin Hughes Electronics Ltd. Unit 3608-12, Cable TV Tower 9 Hoi Shing Road, Tsuen Wan Hong Kong

inquiry-apac@austin-hughes.com

ASEAN

Austin Hughes Pte. Ltd. 164 Gul Circle #01-07 JTC Space@Gul Singapore 629621

inquiry-asean@austin-hughes.com

Austin Hughes has an extensive distribution network, including the Americas, EMEA, APAC & ASEAN Contact your nearest sales office for details of local representation

Please ask for details of other products from Austin Hughes. Every effort has been made to ensure that the information contained herein is correct. There is a possibility that the image(s) shown may not be exactly the same as the final product. The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

All brand names, logo and registered trademarks are properties of their respective owners Copyright 2024 Austin Hughes Electronics Ltd. All rights reserved. Distributed by:

Distributor by country on application