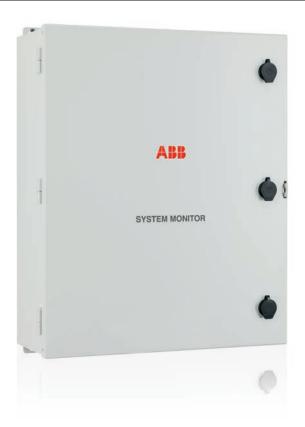
# ABB monitoring and communications VSN730 System Monitor



The VSN730 System Monitor is a high-performance data collection and communication system that is ideal for small to medium commercial PV plant applications.

The VSN730 is the "lite" version of the VSN750 Plant Manager offering a basic set of features at the lowest price possible for a monitoring turnkey solution.

The turnkey solution saves the installer time (and money) by providing several components, prewired and preinstalled in an outdoor rated enclosure. It collects data and uploads information over the Internet in near real-time to the Aurora Vision® Plant Management Platform.

# VSN730 System Monitor includes quality equipment for reliabile monitoring

Included in this system is the VSN700 Data Logger (-03) which can monitor and provide data management for up to 10 ABB string inverters and one VSN800 weather station.

It also provides RS-485 surge protection, which on the RS-485

protection, which on the RS-485 communication lines is a "must have" to offer protection against logger damage in electrically "dirty" environments. The 277VAC capable input power supply is ideal for commercial installations where only 3 phase 480VAC is easily available and inverter command and control for commercial and utility PV system operation, as well as SCADA integration.

#### **Highlights**

- VSN700-03 Data Logger
- Enclosed in a painted, steel NEMA 4/ IP65 enclosure
- 85VAC to 305VAC / 24 VDC, 1A power supply
- Supports 10 ABB string inverters and a VSN800 weather station
- RS-485 surge protection
- Easy installation



#### Additional highlights

- Remote performance and asset management through the Aurora Vision® Plant Management Platform
- The turnkey solution saves the installer time (and money) by providing several components, prewired and preinstalled in a outdoor rated enclosure
- Remote management capabilities minimize truck rolls by providing configuration, upgrades, and debug over the Internet using the Aurora Vision® Plant Management Platform

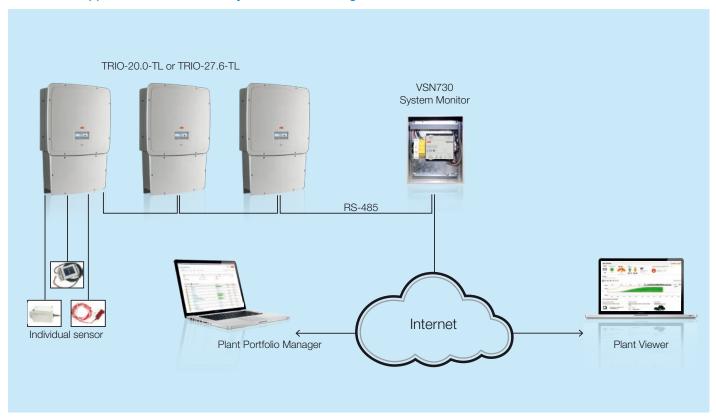


#### Technical data and types

Devices supported  ### Monitoring   Inverter direct, environmental sensors	Type code	VSN730 System Monitor	
Monitoring Inverter direct, environmental sensors inverter control None Communication interfaces Serial port interface Serial port configuration Non-isolated Modbus or Aurora Protocol support Int devices, depending on poil rate and configuration Non-isolated Modbus or Aurora Protocol support Int devices, depending on poil rate and configuration RS-485 port 2 configuration RS-485 port 2 configuration RS-485 shielded twisted Pair, Recommend Beldien # 1120.64 for 3 conductors Ethernet port 0 Firewall protected Ethernet WAN port internet connection Ethernet port 1 Ethernet connections RJ-45 Ethernet 10/100 base-T (LAN/WAN) Communication protocols Plant fieldbus paperifications Data logging specifications Logging Real time power values at 1,3,5, 15 minute configurable intervals Logal storage Log data for 30 days based on 15 minute intervals, Days logged may be reduced by intervals shorter that 7-minute) Upgradeability Field upgradable over the Internet or locally via USB memory stick Communications surge protection Replaceable cartride Citel DLAM-0603 Power supply DC power supply input QC power supply input QC power supply output Replaceable cartride Citel DLAM-0603 Power supply DC power supply output Replaceable cartride Citel DLAM-0603 Power supply DC power supply input QC power supply input QC power supply output Replaceable cartride Citel DLAM-0603 Power supply DC power supply input DC power supply input DC power supply input Replaceable cartride Citel DLAM-0603 Power supply input Replaceable cartride Citel DLAM-0603 Power supply input Replaceable cartride Replaceable cartride Replaceable cartride Replaceable cartride Replaceable cartride Replacea	Platform		
inverter control Communication interfaces Serial port interface RS-485 port 2 configuration RS-485 port 2 configuration RS-485 port 2 configuration Maximum devices per serial port Fieldbus cable RS-485 port 2 configuration RS-485 port 2 configuration RS-485 port 2 configuration RS-485 port 2 configuration Maximum devices per serial port Fieldbus cable RS-485 shielded twisted Pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors Ethernet port 0 Firevall protected Ethernet WAN port for internet connection Ethernet port 1 Local LAN with static IP address Ethernet connections R-485 Ethernet 10/100 bases T (LAN/WAN) Communication protocols Plant fieldbus protocols LAN/WAN protocols Aurora Protocol, Modbus RTU, SunSpec LAN/WAN protocols Bata sampling rate Loggling Specifications Data logging specifications Local storage Loggling Relative power values at 1,3,5, 15 minute configurable intervals Local storage Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter that 7-minute) Upgradeability Field upgradable over the Invalvals. (Days logged may be reduced by intervals shorter that 7-minute) Power supply input Separative Power supply input Oc power supply input Q	Devices supported	10x ABB string inverters + 1x VSN800 Weather Station	
Serial port interfaces  (2) RS-485 + (1) RS-232  RS-485 port 1 configuration  Optically isolated repeater for Modbus or Aurora Protocol support  RS-485 port 2 configuration  RS-485 port 2 configuration  Non-isolated Modbus or Aurora Protocol support  Non-isolated Modbus or Aurora Protocol support  11 devices, depending on poll rate donfiguration  Fieldbus cable  RS-485 shielded twisted Pair, Recommend Belden # 1120A cable or # 3106A for 3 conductors  Firewall protected Eithernet WAN port for internet connection  Eithernet port 1  Eithernet port 1  Eithernet connections  RJ-46 Ethernet 10/100 base-T (LANWAN)  Communication protocols  Plant fieldbus protocols  Aurora Protocol, Modbus RTU, SunSpec  LANWAN protocols  Modbus/TCP, HTTP, DHCP, SSL, SSH, XML  Data logging specifications  Data sampling reset stant in minute average)  Logging  Real time power values at 1,3,5, 15 minute configurable intervals  Logging (Logging Beader)  Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than 7-minute)  Log observable supply input (Logging Beader)  Communications surge protection  Replaceable cartride  Citel DLAM-06D3  Power supply input (Logging Beader)  Communications surge protection rating  Ambient temperature range (Logging Beader)  Environmental protection rating (Logging Beader)  Research (Logging Beader)  Research (Logging Beader)  Research (Logging Beader)  Logging (Logging Beader)  Research (Logg	Monitoring	Inverter direct, environmental sensors	
Serial port interface  (2) RS-485 + (1) RS-232 RS-485 port 1 configuration Optically isolated repeater for Modbus or Aurora Protocol support RS-485 port 2 configuration Non-isolated Modbus or Aurora Protocol support Maximum devices per serial port Fictidous cable RS-485 shielded twisted Pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors Ethernet port 0 Firewall protected Ethernet WAN port for internet connection Ethernet connections RJ-48 Ethernet 10/100 base-T (LANWAN) Communication protocols Plant fieldbus protocols Aurora Protocol, Modbus RTU, SunSpec LAN/WAN protocols Aurora Protocol, Modbus RTU, SunSpec Logal specifications Data sampling rate Logal storage Beat time power values at 1,3,5, 15 minute configurable intervals Logal storage Communications surge protection Replacable cartride Field upgradable over the Internet or locally via USB memory stick Communications surge protection Replacable cartride Citel DLAM-06D3 Power supply input Popower	Inverter control	None	
RS-485 port 1 configuration RS-485 port 2 configuration Maximum devices per serial port RS-485 port 2 configuration Maximum devices per serial port RS-485 shielded twisted Pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors Ethernet port 0 Ethernet port 0 Ethernet port 1 Ethernet toonections RS-485 shielded twisted Pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors Ethernet port 1 Local LAN with static IP address Ethernet connections RJ-45 Ethernet 10/100 base-T (LANWAN) Communication protocols RICHANWAN protocols Aurora Protocol, Modbus RTU, SunSpec LANWAN protocols Aurora Protocol, Modbus RTU, SunSpec LANWAN protocols Aurora Protocol, Modbus RTU, SunSpec LANWAN protocols Data sampling rate Logging specifications Data sampling rate Logging Real time power values at 1,3,5,15 minute configurable intervals Local storage Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter that 7-minute) Upgradeability Field upgradable over the Internet or locally via USB memory stick Communications surge protection Replaceable cartride Citel DLAM-06D3 Power supply output 90 VAC to 264 VAC DC power supply input 90 VAC to 264 VAC DC power supply input 90 VAC to 60°C Environmental protection rating Ambient temperature range Finvironmental protection rating Relative huminity 0 to 100% condensing Mechanical parameters Dimensions H x W X D 12 x 10" x 5" (30m x .25m x .13m) Finclosure options Find H y W X D 1 x 10" x 5" (30m x .25m x .13m) Finclosure options Find H y W X D CSAUS / CE Altitude COPPIERS & CONCULTED AND AND AND AND AND AND AND AND AND AN	Communication interfaces		
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Maximum devices per serial port  11 devices, depending on poll rate and configuration  RS-485 shielded twisted Pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors  Ethernet port 0  Ethernet port 1  Ethernet connections  RJ-45 Ethernet 10/100 base-T (LANWAN)  Communication protocols  Plant fieldbus protocols  LANWAN protocols  LANWAN protocols  LANWAN protocols  LANWAN protocols  LANWAN protocols  Late ampling rate  Logging specifications  Data sampling rate  Log data for 30 days based on 15-minute intervals. Clays logged may be reduced by intervals shorter than Replaceable cartride  Communications surge protection  Replaceable cartride  Power supply  DC power supply input  DC power supply uptput  Environmental protection rating  Ambient temperature range  Environmental protection rating  Relative humidity  Mochanical parameters  Dimensions H x W X D  Painted steel  Weight  Marking  Compulsion  FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity  Envision  In 1 devices, depending on policy # 3100A conducted and Radiated Emmission  Immunity  Envision  1 devices, depending on policy # 3100A for 3 conductors  Firewall protection rating and protection r	RS-485 port 1 configuration	•	
Fieldbus cable RS-485 shielded twisted Pair. Recommend Belden # 1120A cable or # 3106A for 3 conductors Ethernet port 0 Firewall protected Ethernet WAN port for internet connection Ethernet port 1 Local LAN with static IP address Ethernet connections RJ-45 Ethernet 10/100 base-T (LAN/WAN)  Communication protocols  Plant fieldbus protocols  LANWAN protocols  Aurora Protocol, Modbus RTU, SunSpec  Aurora Protocol, Modbus RTU, SunSpec  LANWAN protocols  Aurora Protocol, Modbus RTU, SunSpec  Aurora Protocol, Modbus RTU, SunSpec	RS-485 port 2 configuration	<u>*</u>	
Ethernet port 0 Firewall protected Ethernet WAN port for internet connection  Ethernet port 1 Local LAN with static IP address  Ethernet connections  RJ-45 Ethernet 10/100 base-T (LAN/WAN)  Communication protocols  Plant fieldbus protocols  Aurora Protocol, Modbus RTU, SunSpec  LAN/WAN protocols  Modbus/TCP, HTTP, DHCP, SSL, SSH, XML  Data logging specifications  Data sampling rate  Logging  Real time power values at 1,3,5, 15 minute configurable intervals  Logging  Local storage  Log data for 30 days based on 15-minute intervals, (Days logged may be reduced by intervals shorter than 7-minute)  Upgradeability  Field upgradable over the Internet or locally via USB memory stick  Communications surge protection  Replaceable cartride  Citel DLAM-06D3  Power supply  Do yower supply input  Do yower supply junty  Do yower supply output  Environmental protection rating  Ambient temperature range  Power temperature range  Power temperature range  Power horizontal protection rating  Relative humidity  Mechanical parameters  Dimensions H x W X D  12° x 10° x 5° (30m x .25m x .13m)  Enclosure options  Mechanical parameters  Dimensions H x W X D  14 bs (6.4 kg)  Mounting System  Compliance  Safety  UL50BA  CCSAus / CE  Altitude  Operate below 3000m  Emission  FCC Part 15 Class A, CISPR 22, LE N55022 conducted and Radiated Emmission  Immunity  En 161000, ENS5024	Maximum devices per serial port		
Ethernet port 1  Local LAN with static IP address  RJ-45 Ethernet connections  RJ-45 Ethernet 10/100 base-T (LAN/WAN)  Communication protocols  Plant fieldbus protocols  Plant fieldbus protocols  Aurora Protocol, Modbus RTU, SunSpec  LAN/WAN protocols  Modbus/TCP, HTTP, DHCP, SSL, SSH, XML  Data logging specifications  Data sampling rate  Logging Plant fieldbus protocols  Alternative and the power values at 1,3,5,15 minute configurable intervals  Local storage  Log data for 30 days based on 15-minute intervals, (Days logged may be reduced by intervals shorter that 7-minute)  Logradeability  Field upgradable over the Internet or locally via USB memory stick  Communications surge protection  Replaceable cartride  Citel DLAM-06D3  Power supply  DC power supply uptut  90 VAC to 264 VAC  DC power supply output  Environmental protection rating  Anbient temperature range  2-20°C to 60°C  Environmental protection rating  NEMA 4  Relative humidity  0 to 100% condensing  Mechanical parameters  Dimensions H x W X D  12" x 10" x 5" (30m x .25m x .13m)  Enclosure options  Roglace and the supply flanges  Compliance  Safety  UL508A  Marking  CCSAus / CE  Altitude  Operate below 3000m  Emission  FCC Part 15 Class A, CISPR 22, EM 55022 conducted and Radiated Emmission  Immunity  EN 61000, EN55024	Fieldbus cable	•	
Ethernet connections  Communication protocols  Plant fieldbus protocols  LAN/WAN protocols  LAN/WAN protocols  LAN/WAN protocols  LAN/WAN protocols  Modbus/TCP, HTTP, DHCP, SSL, SSH, XML  Data logging specifications  Data sampling rate  Logging  Real time power values at 1,3,5, 15 minute configurable intervals  Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than 7-minute)  Upgradeability  Field upgradable over the Internet or locally via USB memory stick  Communications surge protection  Replaceable cartride  Power supply  DC power supply input  DC power supply input  DC power supply output  Environmental protection rating  Ambient temperature range  Environmental protection rating  Relative humidity  Mechanical parameters  Dimensions H x W X D  Encolosure options  Weight  Mounting System  Compliance  Safety  Marking  Arking  FCC Part 15 Class A, CISPR 22, En x 55022 Conducted and Radiated Emmission  Envisone in the protection of the Compliance of the C	Ethernet port 0	Firewall protected Ethernet WAN port for internet connection	
Ethernet connections  Communication protocols  Plant fieldbus protocols  LAN/WAN protocols  LAN/WAN protocols  LAN/WAN protocols  LAN/WAN protocols  Modbus/TCP, HTTP, DHCP, SSL, SSH, XML  Data logging specifications  Data sampling rate  Logging  Real time power values at 1,3,5, 15 minute configurable intervals  Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than 7-minute)  Upgradeability  Field upgradable over the Internet or locally via USB memory stick  Communications surge protection  Replaceable cartride  Power supply  DC power supply input  DC power supply input  DC power supply output  Environmental protection rating  Ambient temperature range  Environmental protection rating  Relative humidity  Mechanical parameters  Dimensions H x W X D  Encolosure options  Weight  Mounting System  Compliance  Safety  Marking  Arking  FCC Part 15 Class A, CISPR 22, En x 55022 Conducted and Radiated Emmission  Envisone in the protection of the Compliance of the C	Ethernet port 1	Local LAN with static IP address	
Plant fieldbus protocols LANWAN protocols Modbus/TCP, HTTP, DHCP, SSL, SSH, XML  Data logging specifications  Data sampling rate Logging Real time power values at 1,3,5, 15 minute configurable intervals Local storage Local sto	Ethernet connections	<u> </u>	
Plant fieldbus protocols LANWAN protocols Modbus/TCP, HTTP, DHCP, SSL, SSH, XML  Data logging specifications  Data sampling rate Logging Real time power values at 1,3,5, 15 minute configurable intervals Local storage Local sto	Communication protocols		
LAN/WAN protocols  Data logging specifications  Data sampling rate Logging Real time power values at 1,3,5, 15 minute configurable intervals Local storage L	Plant fieldbus protocols	Aurora Protocol, Modbus RTU, SunSpec	
Data logging specifications  Data sampling rate Logging Logging Real time power values at 1,3,5, 15 minute configurable intervals Local storage Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than 7-minute) Upgradeability Field upgradable over the Internet or locally via USB memory stick  Communications surge protection Replaceable cartride Power supply DC power supply input DC power supply output DC power supply output DC power supply output DC power supply input DC power supply input DC power supply output DC power	LAN/WAN protocols	Modbus/TCP, HTTP, DHCP, SSL, SSH, XML	
Data sampling rate Logging Real time power values at 1,3,5, 15 minute configurable intervals Local storage Local s			
Logging Real time power values at 1,3,5, 15 minute configurable intervals Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than 7-minute) Upgradeability Field upgradable over the Internet or locally via USB memory stick  Communications surge protection Replaceable cartride Citel DLAM-06D3  Power supply DC power supply input 90 VAC to 264 VAC DC power supply output 24VDC, 1A  Environmental protection rating Ambient temperature range -20°C to 60°C  Environmental protection rating NEMA 4 Relative humidity 0 to 100% condensing  Mechanical parameters  Dimensions H x W X D 12" x 10" x 5" (.30m x .25m x .13m) Enclosure options  Weight 1sl (6.4 kg) Mounting System Screws through flanges  Compliance  Safety UL508A Marking CSAus / CE Altitude Operate below 3000m  Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity EN 61000, EN55024		High frequency data sampling (less than 1 minute average)	
Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than 7-minute)  Upgradeability Field upgradable over the Internet or locally via USB memory stick  Communications surge protection  Replaceable cartride Citel DLAM-06D3  Power supply  DC power supply input 90 VAC to 264 VAC  DC power supply output 24VDC, 1A  Environmental protection rating  Ambient temperature range 20°C to 60°C  Environmental protection rating 30°C to 100% condensing  Mechanical parameters  Dimensions H x W X D 12° x 10° x 5° (.30m x .25m x .13m)  Enclosure options Painted steel  Weight 14 lbs (6.4 kg)  Mounting System Screws through flanges  Compliance  Safety 0 UL508A  Marking 0 CSAus / CE  Altitude 0 Operate below 3000m  Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity EN 61000, EN55024		· · · · · · · · · · · · · · · · · · ·	
Communications surge protection       Replaceable cartride     Citel DLAM-06D3       Power supply       DC power supply input     90 VAC to 264 VAC       DC power supply output     24VDC, 1A       Environmental protection rating     -20°C to 60°C       Environmental protection rating     NEMA 4       Relative humidity     0 to 100% condensing       Mechanical parameters     Dimensions H x W X D       Dimensions H x W X D     12" x 10" x 5" (.30m x .25m x .13m)       Enclosure options     Painted steel       Weight     14 lbs (6.4 kg)       Mounting System     Screws through flanges       Compliance     UL508A       Karfety     UL508A       Marking     cCSAus / CE       Altitude     Operate below 3000m       Emission     FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission       Immunity     EN 61000, EN55024	Local storage	Log data for 30 days based on 15-minute intervals. (Days logged may be reduced by intervals shorter than	
Replaceable cartride  Citel DLAM-06D3  Power supply  DC power supply input  DC power supply output  24VDC, 1A  Environmental protection rating  Ambient temperature range  Forvironmental protection rating  Ambient temperature range  Forvironmental protection rating  NEMA 4  Relative humidity  O to 100% condensing  Mechanical parameters  Dimensions H x W X D  12" x 10" x 5" (.30m x .25m x .13m)  Enclosure options  Painted steel  Weight  14 lbs (6.4 kg)  Mounting System  Compliance  Safety  UL508A  Marking  CCSAUs / CE  Altitude  Operate below 3000m  Emission  FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity  EN 61000, EN55024	Upgradeability		
Power supply DC power supply input DC power supply output 24VDC, 1A  Environmental protection rating Ambient temperature range Environmental protection rating Ambient temperature range Environmental protection rating NEMA 4 Relative humidity 0 to 100% condensing  Mechanical parameters  Dimensions H x W X D 12" x 10" x 5" (.30m x .25m x .13m) Enclosure options Painted steel Weight 14 lbs (6.4 kg) Mounting System Compliance Safety UL508A Marking CCSAus / CE Altitude Operate below 3000m Emission Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission Immunity EN 61000, EN55024	Communications surge protection		
DC power supply input         90 VAC to 264 VAC           DC power supply output         24VDC, 1A           Environmental protection rating         -20°C to 60°C           Environmental protection rating         NEMA 4           Relative humidity         0 to 100% condensing           Mechanical parameters         0           Dimensions H x W X D         12" x 10" x 5" (.30m x .25m x .13m)           Enclosure options         Painted steel           Weight         14 lbs (6.4 kg)           Mounting System         Screws through flanges           Compliance         UL508A           Safety         UL508A           Marking         CCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	Replaceable cartride	Citel DLAM-06D3	
DC power supply output  Environmental protection rating  Ambient temperature range Environmental protection rating  NEMA 4  Relative humidity  O to 100% condensing  Environmental protection rating Environmental protection for 60°C Environmental	Power supply		
DC power supply output  Environmental protection rating  Ambient temperature range Environmental protection rating  NEMA 4  Relative humidity  O to 100% condensing  Environmental protection rating Environmental protection for 60°C Environmental	DC power supply input	90 VAC to 264 VAC	
Ambient temperature range         -20°C to 60°C           Environmental protection rating         NEMA 4           Relative humidity         0 to 100% condensing           Mechanical parameters           Dimensions H x W X D         12" x 10" x 5" (.30m x .25m x .13m)           Enclosure options         Painted steel           Weight         14 lbs (6.4 kg)           Mounting System         Screws through flanges           Compliance         UL508A           Marking         cCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	DC power supply output	24VDC, 1A	
Environmental protection rating Relative humidity 0 to 100% condensing  Mechanical parameters  Dimensions H x W X D Enclosure options Painted steel Weight 14 lbs (6.4 kg) Mounting System Screws through flanges  Compliance Safety Marking CCSAus / CE Altitude Operate below 3000m Emission Immunity  NEMA 4  0 to 100% condensing  NEMA 4  12" x 10" x 5" (.30m x .25m x .13m)  Painted steel  Screw t.13m)  Painted steel  UL 508A  CCSAus / CE  Operate below 3000m  FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity EN 61000, EN55024	Environmental protection rating		
Relative humidity         0 to 100% condensing           Mechanical parameters         Dimensions H x W X D         12" x 10" x 5" (.30m x .25m x .13m)           Enclosure options         Painted steel           Weight         14 lbs (6.4 kg)           Mounting System         Screws through flanges           Compliance         UL508A           Marking         cCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	Ambient temperature range	-20°C to 60°C	
Mechanical parameters           Dimensions H x W X D         12" x 10" x 5" (.30m x .25m x .13m)           Enclosure options         Painted steel           Weight         14 lbs (6.4 kg)           Mounting System         Screws through flanges           Compliance         UL508A           Safety         UL508A / CE           Marking         CCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	Environmental protection rating	NEMA 4	
Dimensions H x W X D         12" x 10" x 5" (.30m x .25m x .13m)           Enclosure options         Painted steel           Weight         14 lbs (6.4 kg)           Mounting System         Screws through flanges           Compliance         UL508A           Safety         UL508A / CE           Marking         CCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	Relative humidity	0 to 100% condensing	
Enclosure options Painted steel Weight 14 lbs (6.4 kg) Mounting System Screws through flanges  Compliance Safety UL508A Marking CCSAus / CE Altitude Operate below 3000m Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission Immunity EN 61000, EN55024	Mechanical parameters	Š	
Weight         14 lbs (6.4 kg)           Mounting System         Screws through flanges           Compliance           Safety         UL508A           Marking         CCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	Dimensions H x W X D	12" x 10" x 5" (.30m x .25m x .13m)	
Mounting System         Screws through flanges           Compliance         UL508A           Safety         UL508A           Marking         CCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	Enclosure options		
Mounting System         Screws through flanges           Compliance         UL508A           Safety         UL508A           Marking         CCSAus / CE           Altitude         Operate below 3000m           Emission         FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission           Immunity         EN 61000, EN55024	Weight	14 lbs (6.4 kg)	
Compliance       Safety     UL508A       Marking     cCSAus / CE       Altitude     Operate below 3000m       Emission     FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission       Immunity     EN 61000, EN55024	Mounting System	<u>;                                    </u>	
Safety UL508A  Marking cCSAus / CE  Altitude Operate below 3000m  Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity EN 61000, EN55024	Compliance		
Marking cCSAus / CE Altitude Operate below 3000m  Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity EN 61000, EN55024	Safety	UL508A	
Altitude Operate below 3000m  Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity EN 61000, EN55024	Marking		
Emission FCC Part 15 Class A, CISPR 22, EN 55022 Conducted and Radiated Emmission  Immunity EN 61000, EN55024	Altitude		
Immunity EN 61000, EN55024	Emission		
***************************************		<u> </u>	
	Telecom		

Remark. Features not specifically listed in the present data sheet are not included in the product

## Commercial application with VSN730 System Monitor using individual weather sensors



VSN730 - Accessories			
VSN800-12	Weather Station with sensors: ambient temperature , panel temperture, global irradiance		
VSN800-14	Weather Station with sensors: ambient temperature, panel temperature, global irradiance, plane of array irradiance, wind speed & direction		

#### Commercial application with VSN730 System Monitor using VSN800 Weather Station



### Support and service

ABB supports its customers with dedicated, global service organization in more than 60 countries and strong regional and national technical partner networks providing complete range of life cycle services.

For more information please contact your local ABB representative or visit:

www.abb.com/solarinverters

www.abb.com

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