

Designed  
with the  
future in  
mind



**centiel**  
*continuous power availability*

**StratusPower™**

Modular three-phase UPS IEC  
50 kW to 3.75 MW



## StratusPower™ The ultimate UPS for net-zero data centers

StratusPower is an innovative uninterruptible power supply (UPS), specifically designed to meet the rigorous demands of today's IT infrastructure.

Designed and manufactured in Switzerland, StratusPower's superior topology, referred to as **DARA**, ensures full availability with **no single point of failure**, providing data center operators with complete peace of mind. Furthermore, installation of StratusPower is straightforward and maintenance is simple and non-intrusive.





Minimize your total cost of ownership  
while achieving the highest levels  
of availability and reliability  
for your data center.



97,6%

**VFI efficiency**  
Reliable semiconductor  
technology



**99.9999999 % availability**  
No single point of failure

**Fully redundant**  
DARA - fault-tolerant architecture

**From 50 kW – 3.75 MW**  
In cabinets from 375 kW to 1.5 MW

**Non-intrusive maintenance**  
15+ years caps and smart fans

**Smart energy**  
peak-shaving, self-test

**714 kW/m<sup>2</sup>**  
space-saving footprint

**Fully connected**  
multi-protocol and a full  
range of communication  
channels available

## DARA

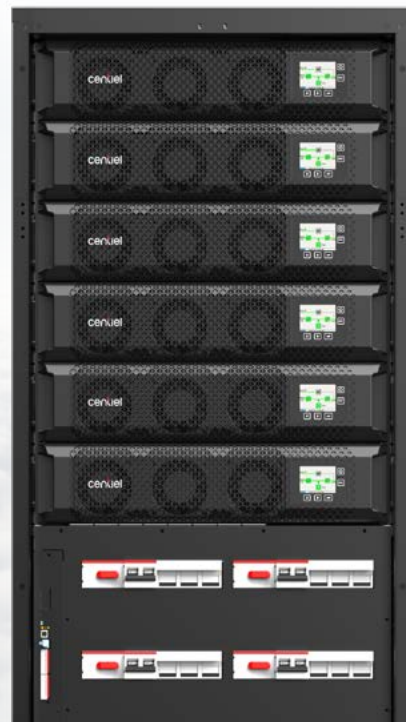
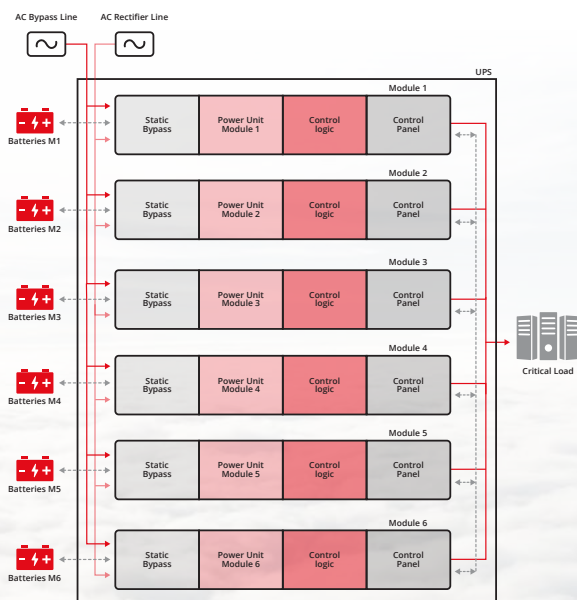
### Take your power availability to the next level

#### When it comes to availability, it's what's inside that counts

With DARA, each UPS module is independent, redundant and interconnected. Each module is a complete UPS system in its own right, with three independent power converters, a static bypass and all the hardware devices needed to safely isolate a fault without impacting the load. This maximizes the mean time between failures (MTBF) and safeguards the power to your critical applications.

DARA's Distributed Decision Making technology, referred to as DDM™, elevates redundancy by enabling collaborative decision-making among all modules. This ensures the continuous power supply to your load, even during crucial decision-making moments. With DDM, the UPS can make distributed decisions, eliminating the single point of failure typically associated with master-slave technology. As a result, downtime is minimized, and critical loads remain protected.

#### Maximized availability at module, frame and system level

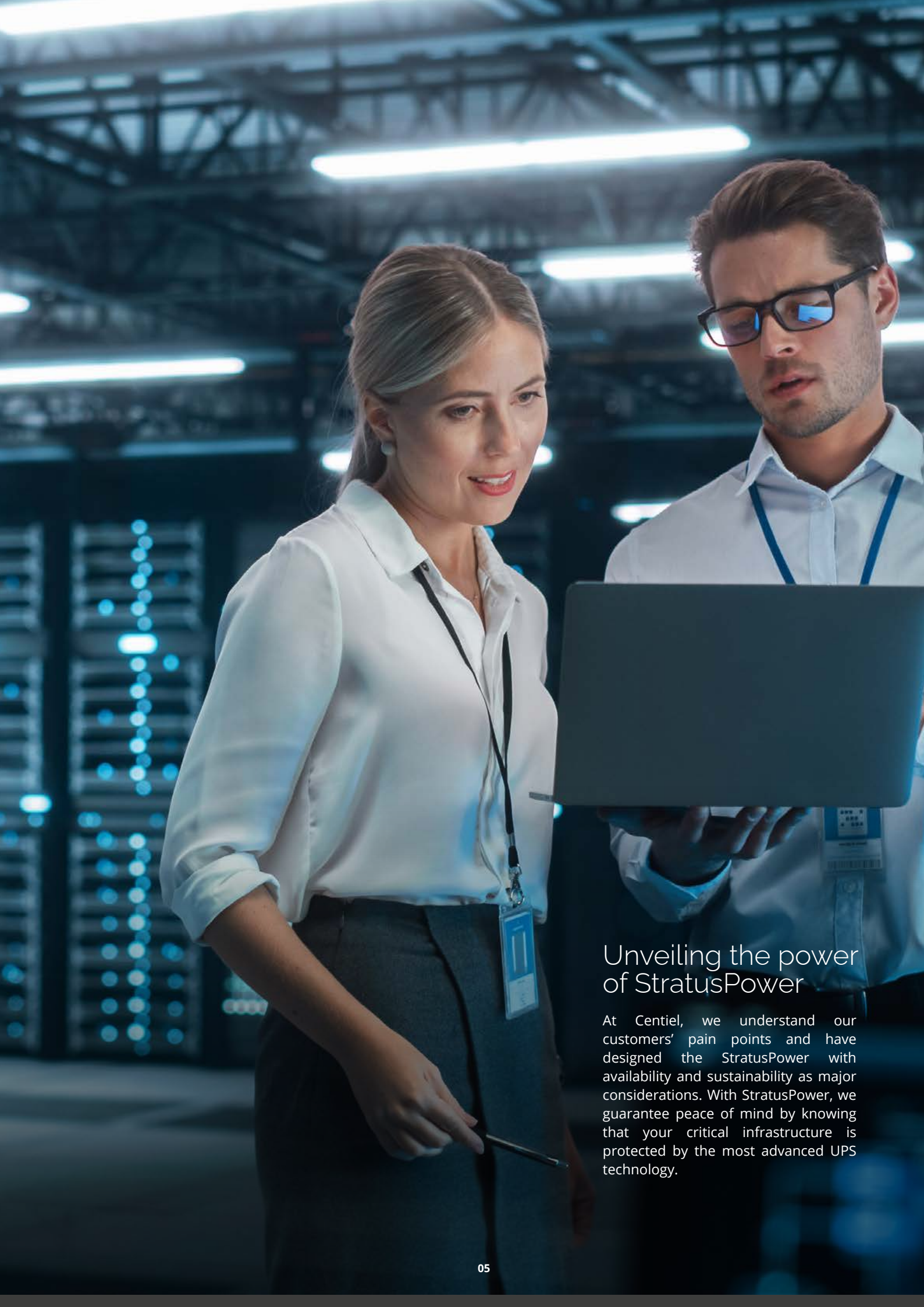


#### Mean time to repair (MTTR)

DARA's technology on the frame level has been designed to accommodate **non-intrusive maintenance** and to **minimize mean time to repair (MTTR)**, ensuring that any downtime is kept to an absolute minimum. For example, in the event of a power failure, frontal access to components avoids the need for removing modules, thereby reducing the risk of human error.

9 nines  
Power Availability



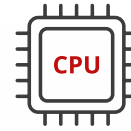


## Unveiling the power of StratusPower

At Centiel, we understand our customers' pain points and have designed the StratusPower with availability and sustainability as major considerations. With StratusPower, we guarantee peace of mind by knowing that your critical infrastructure is protected by the most advanced UPS technology.



## The future-ready UPS



### Advanced computing power

Multi-core  
Trigonometric math unit  
Control law accelerator  
Parallel processing  
IEEE 754 double-precision math



### 100+ Measuring points

At the module level



### External ambient monitoring

Temperature Humidity  
Hydrogen Water leak



### Cybersecure connection

Compliant IEC-4-62443-2

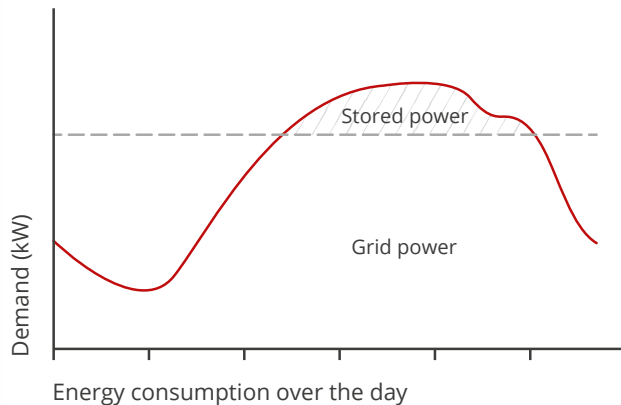




## Advanced energy management

StratusPower provides **peak-shaving capabilities** to help businesses manage electricity usage and reduce costs. By utilizing StratusPower's peak-shaving feature,

businesses can reduce their energy consumption during peak hours when electricity rates are typically at their highest. This results in significant cost savings.



### StratusPower's peak-shaving capabilities

At times of peak consumption, grid operators may charge higher prices for their power. To minimize costs for the user, a portion of the energy stored locally in the UPS can be utilized during these times, thereby reducing the amount drawn from the grid.

The UPS batteries can then be recharged with power from off-peak hour.

## With the future in mind

StratusPower is **future-ready** and can connect to a variety of power generation sources. It is equipped to

provide grid support and manage energy efficiently based on the specific requirements of each application.

**Power  
generation**



**Power  
demand**





### DC Flex technology



Our unique DCFlex® technology offers unparalleled flexibility when it comes to battery storage installation and configuration, as well as preparing the infrastructure to manage both current and future energy sources.

Our UPS solution is compatible with various battery storage devices, allowing you to reuse the DC supply or to choose the option that best suits your needs and budget.

The StratusPower battery charging current capability is 500 percent higher than our closest competitors, meaning **faster charging times** and more **efficient use of your batteries**.

DCFlex® 240 to 600VDC

### Predictive and remote health monitoring



This not only saves time and effort but also improves your system's overall reliability and safety. With its computing capabilities and more than 100 measurement points, StratusPower does the work for you, ensuring that maintenance is performed promptly and accurately.

**Bluetooth connectivity** allows technicians for easy, **non-intrusive** monitoring via mobile devices, with the Centiel app providing real-time status updates and alerts.

StratusPower provides advanced **cybersecurity** features in compliance with **IEC-4-62443-2**, making certain that your critical data and systems are protected from cyber threats.

### Robust and reliable semiconductor technology



The StratusPower also boasts a robust and reliable design, including a proprietary technology for inverter physical isolation in case of IGBT failure, ensuring maximum uptime for your critical infrastructure.

The **triple-mode parallel** bus provides an extra layer of redundancy, eliminating any single point of failure in communication between frames and modules.

At Centiel, we take reliability very seriously. That's why we designed our technology with **extra-safe power of 24%**, ensuring a higher level of reliability and redundancy. Even if a redundant module fails, our advanced technology guarantees no single point of failure. With a continuous module operation capacity of 75 kW, the 750 kW StratusPower UPS transforms into a 900 kW powerhouse. Our UPS solution is compatible with various battery storage devices, allowing you to reuse the DC supply or to choose the option that best suits your needs and budget.

75kW UPS Module

### Exceeding performance expectations



With a THDi of less than 1 percent, the StratusPower provides an excellent performance that exceeds regulatory requirements.

The UPS is capable of handling 125% overload for 15 minutes and 150% overload for 2 minutes, ensuring uninterrupted power delivery during peak demand scenario.

A short circuit capability above 3xIn safeguards your equipment and system integrity despite electrical faults.



Tangible sustainability:  
We help your data center achieve CO<sub>2</sub> emissions targets through our solutions and services.



#### Energy efficiency

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StratusPower is designed with energy efficiency in mind, using the latest technology to reduce energy consumption and minimize losses.

97.6% (VFI) efficiency

#### Zero waste

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StratusPower is manufactured using eco-friendly materials, ensuring that our products have minimal impact on the environment.

30+ years of UPS design life  
15+ years of life on replaceable components

#### Net zero by design

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Our company is continuously committed to improving our sustainability practices, and we manufacture StratusPower using environmentally friendly processes to minimize our impact on the environment.

95% of the energy used for production testing is recycled



## Powering flexibility The scalable solution

Up to  
**1.5 MW**  
per frame



<b>Model</b>	<b>CAB-SP375(B/T)-E-K</b>	<b>CAB-SP750(B/T)-E-2K</b>
<b>Modules</b>	Up to 6 x SM50/62	Up to 12 x SM50/62
<b>Nom. power /cabinet</b>	375 kW	750 kW
<b>Dimensions h x w x d (mm)</b>	1982 x 656 x 900	1982 x 1312 x 900
<b>Footprint</b>	0.59 m <sup>2</sup>	1.18 m <sup>2</sup>



<b>Model</b>	<b>CAB-SP1125(B/T)-E-3K</b>	<b>CAB-SP1500(B/T)-E-4K</b>
<b>Modules</b>	Up to 18 x SM50/62	Up to 24 x SM50/62
<b>Nom. power /cabinet</b>	1,125 kW	1,500 kW
<b>Dimensions h x w x d (mm)</b>	1982 x 1968 x 900	1982 x 2624 x 900
<b>Footprint</b>	1.77 m <sup>2</sup>	2.36 m <sup>2</sup>

Scalability  
up to  
**3.75 MW**





# Technical Datasheet

Model		CAB-SP375B-E-K CAB-SP375T-E-K	CAB-SP750B-E-2K CAB-SP750T-E-2K	CAB-SP1125B-E-3K CAB-SP1125T-E-3K	CAB-SP1500B-E-4K CAB-SP1500T-E-4K
General Data	Module type	SM50 / SM62	SM50 / SM62	SM50 / SM62	SM50 / SM62
	Nom. power per module [kVA = kW]	50 / 62.5	50 / 62.5	50 / 62.5	50 / 62.5
	Cont. power per module [kVA = kW]	<b>60/75</b>	<b>60/75</b>	<b>60/75</b>	<b>60/75</b>
	Nom. power per frame [kVA = kW]	375	750	1125	1500
	Cont. power per frame [kVA = kW]	<b>450</b>	<b>900</b>	<b>1350</b>	<b>1800</b>
	Number of modules per frame	1-6	1-12	1-18	1-24
	Max. power per system [kVA = kW]	3750	3750	3750	3750
	Topology / technology	<b>Online double conversion / DARA (Distributed Active Redundant Architecture)</b>			
Input	Rectifier	Input wiring	3 Ph + N + PE		
		Rated voltage	380/400/415Vac		
		Voltage range	For loads <100% (-25%, +20%), <80% (-32.5%, +20%), <60% (-35%, +20%)		
		Input frequency	30-70 Hz		
		Total Harmonic Distortion	THDi<0.8% for linear load, THDi<3% for nonlinear load		
		Input power factor	0,99		
	Bypass	Input wiring	3 Ph + N + PE		
		Rated voltage	±30...±10% (Voltage) (According to VFI-SS-111)		
		Input frequency	50/60 ±2/4% (selectable)		
	Battery	Rated voltage	240 - 600 Vdc (the number of batteries can be selected )		
		Internal batteries (7/9Ah)	E: External		
		Type	Lead-Acid / NiCad / Lithium / Zink / Salt / others...		
		Blocks[LA]	<b>20-50</b>		
		Charger (Amps per module)	<b>50</b>		
	Inverter	Output wiring	3Ph+N+PE		
		Voltage	380/400/415 Vac±1%		
		Frequency	Tracking the bypass input (Online Mode); 50 / 60 Hz ± 0.05% (Battery Mode)		
		Output power factor	1		
		Efficiency	<b>97,6%</b>		
		Overload capacity	<b>Inverter: 124% continuous, 125% for 15min, 150% for 120 sec</b>		
	Bypass	Efficiency	<b>99,4%</b>		
Environment		Operating temperature	0-40°C (No power derating)		
		Storage temperature	-40-70°C		
		Relative humidity	0%-95% (No condensing)		
		Maximum operating altitude	1000 m. above 1000 m, derating 1% for each additional 100 m		
Others		Dimensions (H x W x D) [mm]	1982 x 656 x 900	1982 x 1312 x 900	1982 x 1968 x 900   1982 x 2624 x 900
		Certifications	EN/IEC 62040-1   EN/IEC 62040-2   EN/IEC 62040-3   CE   UKCA   EAC   RoHS		
		Communications	RS485, USB, Dry contacts, Ethernet, Bluetooth		



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[www.centiel.com](http://www.centiel.com)

