

REMOTE PERFORMANCE MONITORING WITH I-BRUSH CARBON BRUSH PLUG-AND-PLAY SYSTEM

Carbex i-BRUSH system with integrated sensors in the carbon brush, plus a control unit, enables maintenance staff to check brush condition at any time, anywhere. Operating conditions are uploaded to the cloud and can be displayed in any smart-phone or PC. With knowledge of remaining brush life, the future maintenance can easily be planned to secure uptime.

The i-BRUSH system can be retrofitted to any existing installation. The system measures wear, temperature, humidity, voltage drop and current distribution.

i-BRUSH is suitable for offshore as well as onshore applications. All Carbex grades of carbon brush are available with the i-BRUSH design.

The i-BRUSH monitoring software lists all generators on a site connected to the system. The generator closest to needing maintenance tops the list, enabling users to priorities maintenance duties. Alarm levels can also be set. The user is notified by email or text message when an alarm is triggered. Carbex support staff can access the system for remote support.

The i-BRUSH is connected to an external control unit. The plug-and-play unit does not require electrical installation.



Benefits

- Secure operation
- Remote access to carbon brush operation condition
- Machine performance optimized
- Fewer site visits for inspection and maintenance
- Reduced downtime
- Cost savings on complete slip ring system
- Safety

Features

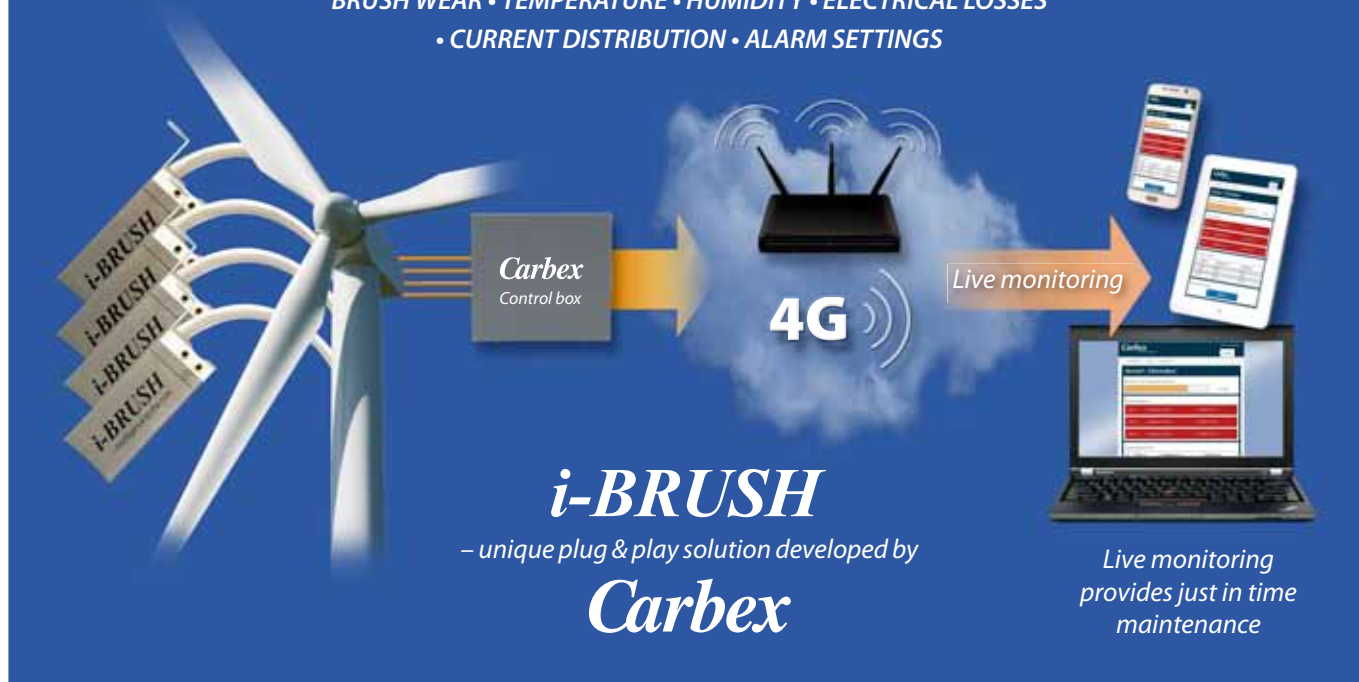
- Monitoring of brushes and surrounding in the slip ring compartment from anywhere in the world
- Control unit with integrated Intelligence
- Alarms sent by text message and/or email
- Online database available on secure website
- Easy installation – i-BRUSH is a plug-and-play system





LIVE MONITORING OF CRITICAL PARAMETERS DURING OPERATION

BRUSH WEAR • TEMPERATURE • HUMIDITY • ELECTRICAL LOSSES
• CURRENT DISTRIBUTION • ALARM SETTINGS



i-BRUSH monitoring:

- Brush wear • Temperature • Humidity • Electrical losses • Current distribution • Alarm settings

Standard configuration

- Control unit with integrated intelligence and pre-installed program with alarm settings etc.
- Communication - 4G transmitter and Ethernet connection.
- I/O 4 analog output 24V
- 6 channels (1 brush per channel)
- Internal data storage (SD card)
- Integrated induction voltage supply
- Battery back up
- Cabling
- Connection components
- Web based software
- Sensor carbon brushes

Option

For extra channels and other options please contact Carbex

Installation

i-BRUSH is a plug-and-play system, which means quick and easy installation. The installation does not require any specialized expertise. In addition to the standard i-BRUSH settings, the system can be connected to an external system such as a SCADA system.

Carbex support

- Carbex provides data storage on its secure server (<https://www.carbex-ibrush.com>)
- Subscription of reports
- Permanent, private and secured access to the data storage site
- Program update for i-BRUSH control unit during data transfer. No subscription is needed.
- Alarms sent by email or SMS
- Technical support i-brush.support@carbex.se
- Contact: i-brush@carbex.se

