

# Get smarter with MicroKraft 4

Automating ESP operation using new intelligent controller logic.



# MicroKraft 4 smartness in a nutshell



## Reliability in operation

Reliable operation is extremely important for an ESP. A disturbance may cause anything from process downtime and high stack opacity. Thanks to **SmartESP™**, precipitator reliability will increase dramatically.



## Emission efficiency

Emission efficiency depends heavily on reliability in operation. And with best-in-class reliability comes best-in-class efficiency. Remote performance monitoring, troubleshooting, and firmware upgrading via a USB port add further to total ESP efficiency.



## Optimum power consumption

The bigger the ESP, the higher its power consumption. Because **SmartESP™** optimizes the performance of your precipitators, it will also optimize their power consumption.



## Lower investment

Thanks to many useful features, it is possible to reduce spending on external equipment. With the Soft PLC option, for example, there is no need for external PLC hardware and software. In addition, **SmartESP™** ensures optimum ESP dimensioning and best price/performance ratio.



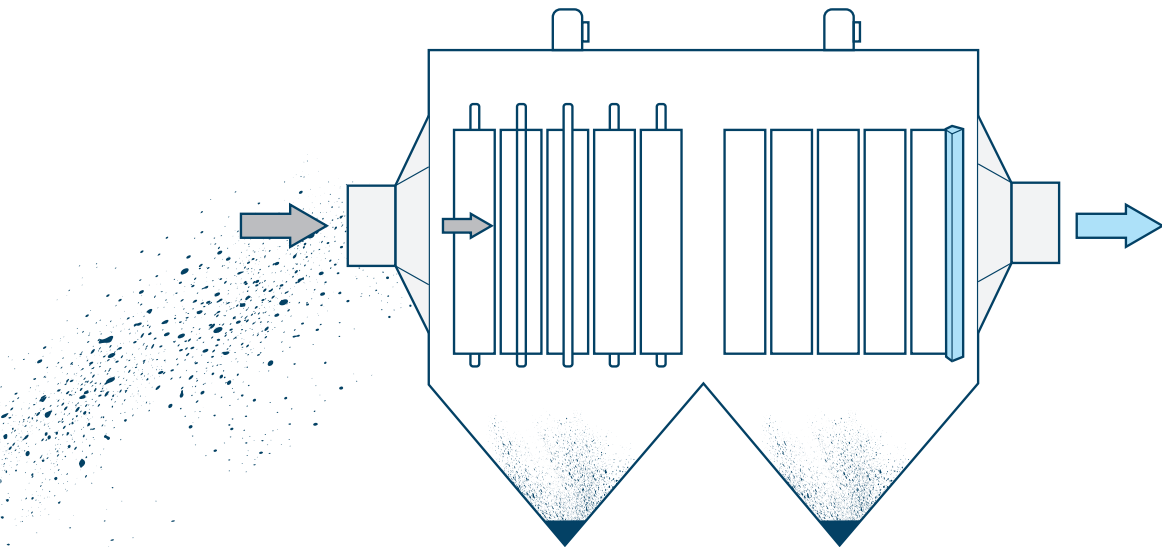
## Less maintenance

Internet connectivity via LAN enables remote troubleshooting and fast service response, thus making it possible to adopt 24/7 support without the need for on-site service personnel.

A person in silhouette is sitting at a desk with a computer monitor and keyboard. The person has their hand to their chin in a thoughtful pose. The background is a bright, blue-tinted window with a stream of glowing particles or light rays flowing across the scene. The overall mood is professional and futuristic.

## **An autopilot for your ESP operation**

Tougher legislation forces industry to reduce emissions. An optimally operating electrostatic precipitator (ESP) is vital to any producer's ability to meet regulations. Now, MicroKraft 4 from KrafftPowercon makes ESPs even more efficient by automatically optimizing their performance based on actual operating conditions.



## SmartESP™ – Higher collection efficiency at lower cost

You want to meet environmental regulations using your existing ESPs with minimum additional investment or upgrading. At the same time, you want to minimize electricity consumption by ensuring your equipment is perfectly dimensioned for your needs.

KraftPowercon offers a simple yet elegant solution to this optimization challenge. Our new ESP controller, MicroKraft 4, comes with **SmartESP™**, a kind of autopilot for your ESP operation that is set to change the market landscape.

You simply set the performance level you want, then **SmartESP™** will ensure it is maintained during operation by automatically adjusting to load changes – thus reducing both stack emissions and operational costs.

Power plants and industries can trust their ESPs to perform optimally at all time, without worrying about manual intervention. And since performance is optimized, so is power consumption and your total operational economy, too.



## Excellent communications skills

Even a **self-regulating device** as MicroKraft 4 needs to communicate with the outside world. The status of your ESP can be remotely monitored 24/7 via the Internet using a standard tablet or smartphone.

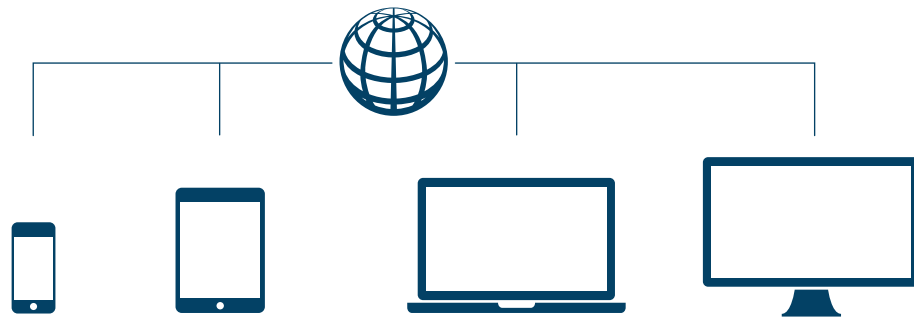
Thanks to Internet connectivity, it is also possible to **remotely access logged data** – an alternative to using a USB flash memory – thus eliminating the need to have personnel present on site.

**All leading industrial communication protocols are supported.** There is no need for a converter, which improves reliability and makes it easier to adapt the device to the plant's existing communication protocol.

You can evaluate the long-term ESP performance by **reviewing historical data**. An integrated data logger continuously registers operational data for easy access and analysis.

SmartESP™ combined with advanced communication features provides full monitoring functionality, even for companies that don't use a SCADA system to supervise their processes.

With its superb intelligence, MicroKraft 4 defines a new category of ESP controllers.



**Upgrade  
now!**



**Sitting with an older  
MicroKraft version?  
Interested in upgrading  
to MicroKraft 4? Get  
our upgrade kit from  
MicroKraft 2 or 3 – a  
cost-effective step-  
change to frontline ESP  
control technology!**



KraftPowercon is a global company with production facilities in Sweden, China and India. We offer innovative solutions, products and services within industrial power supply that secure your processes, and give you a number of business benefits. We are a fast-moving industrial company and a learning organisation working towards eliminating waste and taking care of the scarce resources of this world, while constantly improving the performance and efficiency of our products in order to fulfil our brand promise: we won't let you down.