Facility

Proposed continuous monitoring

Clean Room

Clean room measurement and ※AMC monitoring system

AP Series

*AMC=Airborne Molecular Contamination

AMC is an important continuous monitoring item. Even at a very low concentrations the ppb level can cause problems in product quality.
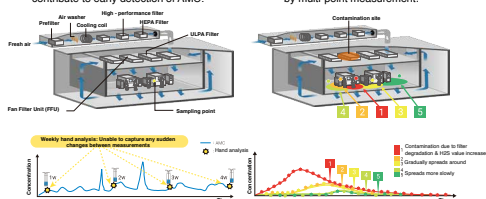
Improved time resolution!
By obtaining continuous data, it can contribute to early detection of AMC.

Improved spatial resolution!
Estimate the source of AMC by multi-point measurement!

Contamination site

Fresh air
Prefilter
Air washer
Cooling coil
High - performance filter
HEPA Filter
ULPA Filter
Fan Filter Unit (FFU)
Sampling point

Weekly hand analysis: Unable to capture any sudden changes between measurements

AMC
Hand analysis

Contamination due to filter degradation & H2S value increased
Gradually spreads around
Spreads more slowly

Concentration
Time
1W 2W 3W 4W

Emission Gas

Exhaust gas monitoring

Portable analyzer
PG-300

Exhaust gas analyzer
ENDA-5000V2 Series

High Purity Gas

Trace amount gas monitoring

Trace amount gas analyzer
GA-370

Ultra Pure Water

DO monitor in HF/ Pure underwater DO monitor
HD-960L DO

High sensitivity silica monitor
SLIA-300 SiO2

Specific resistance meter for ultra pure water
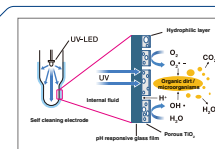**HE-960RW** RES

Wastewater Treatment

Field type Industrial water quality meter
HI1 series

pH ORP ION DO COND
REF CL TURB CALP Others

Self cleaning electrode immersed in the same condition for three months

Biofilm formation   No biofilm formation

Breaks down dirt with UV light ※

Industrial non-replenishing self-cleaning pH electrode

6122 Series

● **Stain resistant principal**

The pH responsive glass film is coated with porous TiO₂ to activate TiO₂ and decomposes organic matter attached to the outside of the electrode to create a self-cleaning effect.

UV-LED
Hydrophilic layer
O₂ CO₂
UV
H⁺ OH⁻
Internal fluid
H₂O
Organic dirt/ microorganisms
Self cleaning electrode
pH responsive glass film
Porous TiO₂

HORIBA