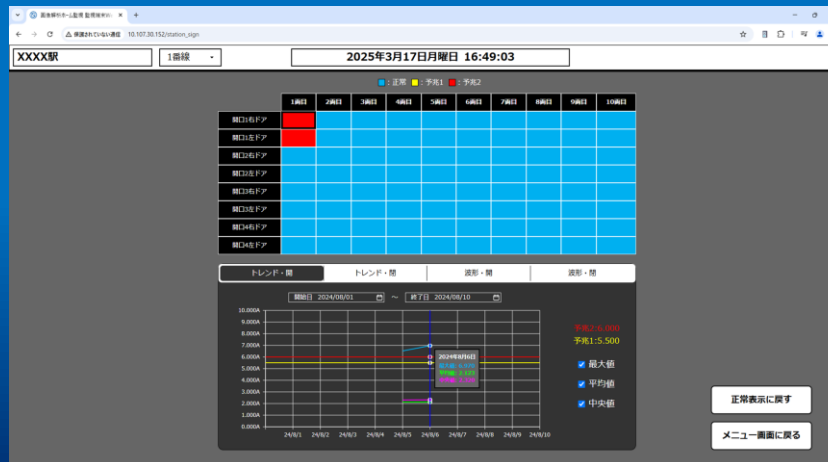


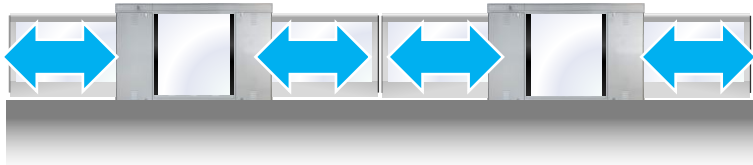
PSD Condition Based Maintenance



Demo Unit
on Display

Continuously monitor equipment condition by AI determination based on long-term change of opening/closing operations of Platform Screen Doors

Platform Screen Doors



Continuously measure the following points during door opening and closing

Drive motor current value

Operating noise

Monitoring System

Monitor the equipment condition by AI determination based on long-term changes of following points



Degree of deterioration

Degree of abnormality

PSD Condition Based Maintenance

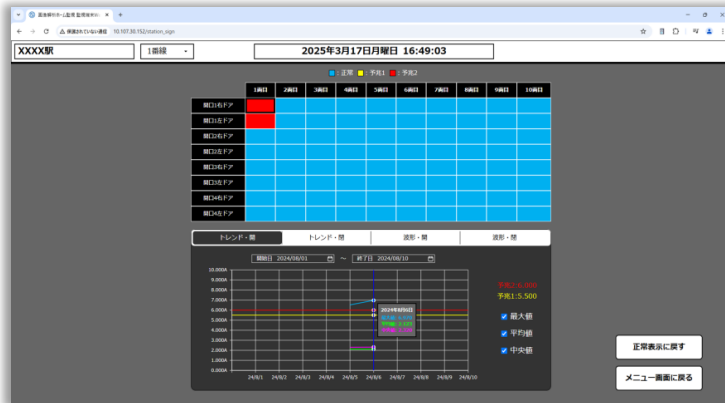
NIPPON SIGNAL

Ease inspection work by maintenance staff
and save maintenance cost

Main window



CBM indicator



Propose maintenance timing based on changes from the initial condition

Realize extension of
the regular inspection period

- Enable economical workforce planning of maintenance staff

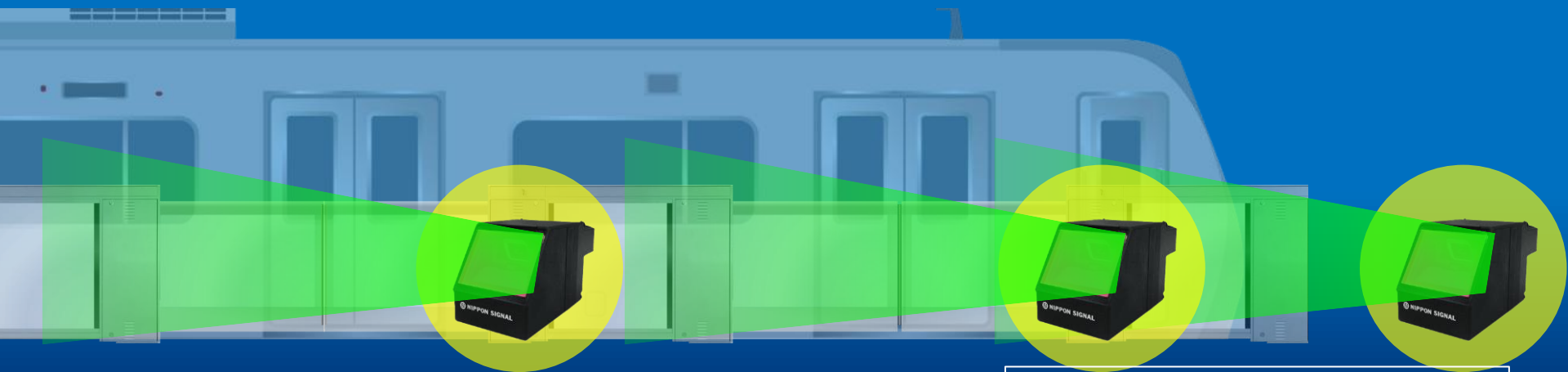


Enable equipment condition
monitoring by checking door
operation every time

Reduction of inspection points
during regular inspection

- Reduces manpower

On-Platform Sensing for Synchronization with Rolling Stock

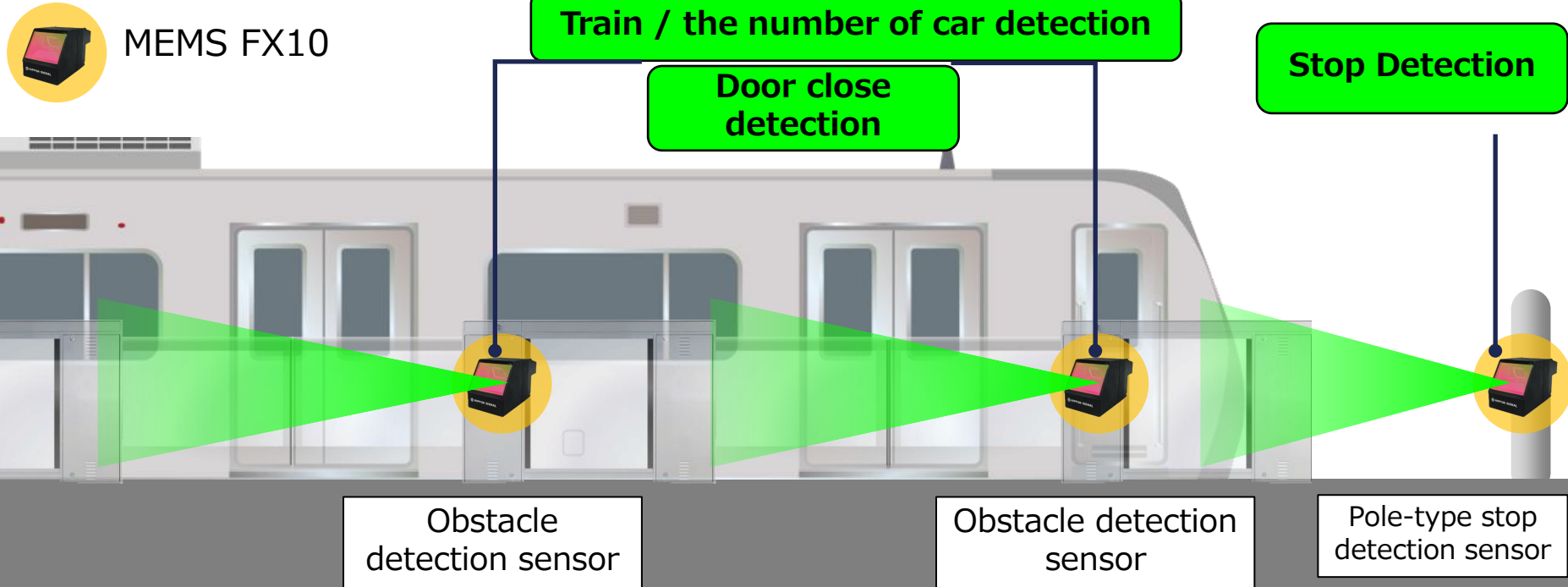


Demo Unit on Display

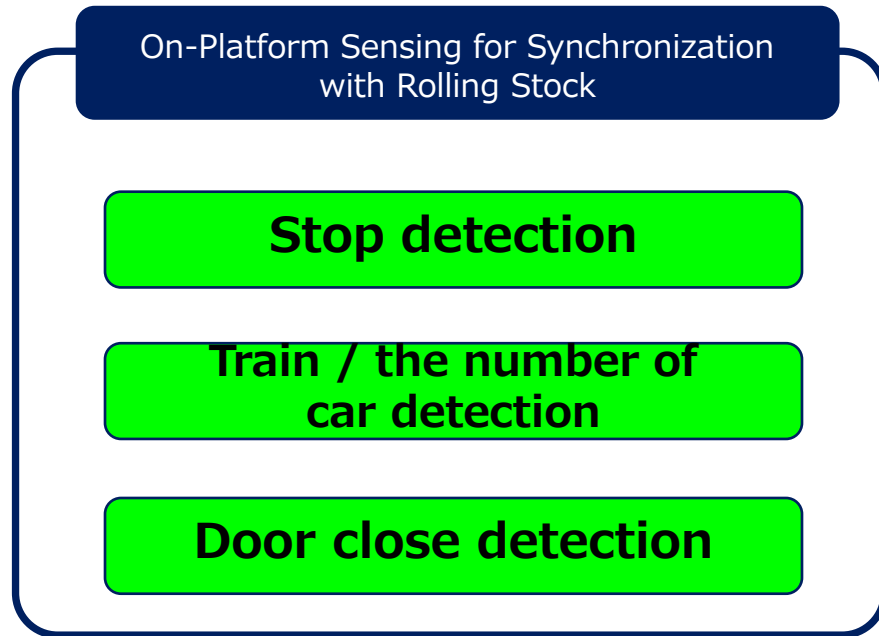
On-Platform Sensing for Synchronization with Rolling Stock

NIPPON SIGNAL

Support door synchronization with rolling stock from train arrival, door opening/closing, to train departure by using MEMS sensors installed on Platform Screen Doors.



**Ease installation, maintenance and management
with introduction cost saving**



**Reduce ceiling-mounted
sensors**

- No need for hanging structures for sensor install.
- No wiring required between PSD and sensors

Reduce installation cost

**Ease maintenance and
management**