Expertise, our source of energy

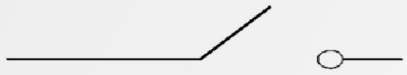
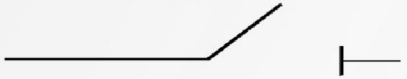
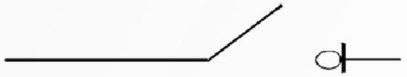
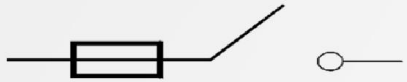
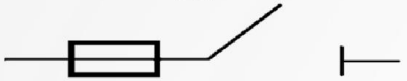
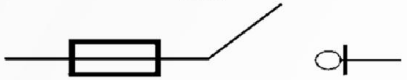
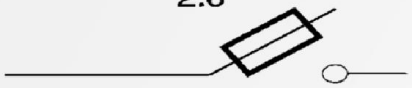
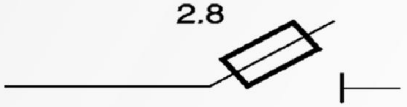
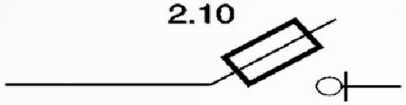


SMART FUSE SWITCH DISCONNECTOR

Singapore – Johor Bahru
April 17-18th, 2019

☑ Public
☐ Internal
☐ Confidential

Product range - Overview

function		
connecting and disconnecting	**isolating**	**connecting, disconnecting and isolating**
switch 2.1 	disconnector 2.2 	switch-disconnector 2.3 
fuse combination units 2.4		
switch - fuse 2.5 	disconnector - fuse 2.7 	switch-disconnector - fuse 2.9 
fuse-switch 2.6 	fuse-disconnector 2.8 	fuse-switch-disconnector 2.10 

Product range - Overview

MULTIBLOC ®

Horizontal



MULTIVERT ®

Vertical



Product range - Overview

Description	Multibloc ®	Multivert ®
Mounting	Bus Bar (40/60/100mm) Panel Din rail	Bus Bar (100/185mm) Panel -
No. of poles	1, 2, 3, 4	3
Switching modes	1P / 3P / 3+1P / 4P	3x1P / 1x3P
Sizes	000 to 4a	
Rated currents	100A to 2000A	
Cable terminations	Numerous (screw, clamp, frame clamp, V-clamp, etc.) Cover the largest variety of cable types (Al and/or Cu) and sizes (up to 500mm^2)	
Monitoring devices	Electronic (ESÜ) and Electro-Mechanical (MZS) monitoring devices Indicator for switch door position	
Measuring and metering	Ammeter	Ammeter “Huckepack”-Fuse
Main field of application	House connection enclosures Industrial switchboards Photovoltaics Telecommunication	Transformer sub-station Feeder pillars Industrial/residential switchboards

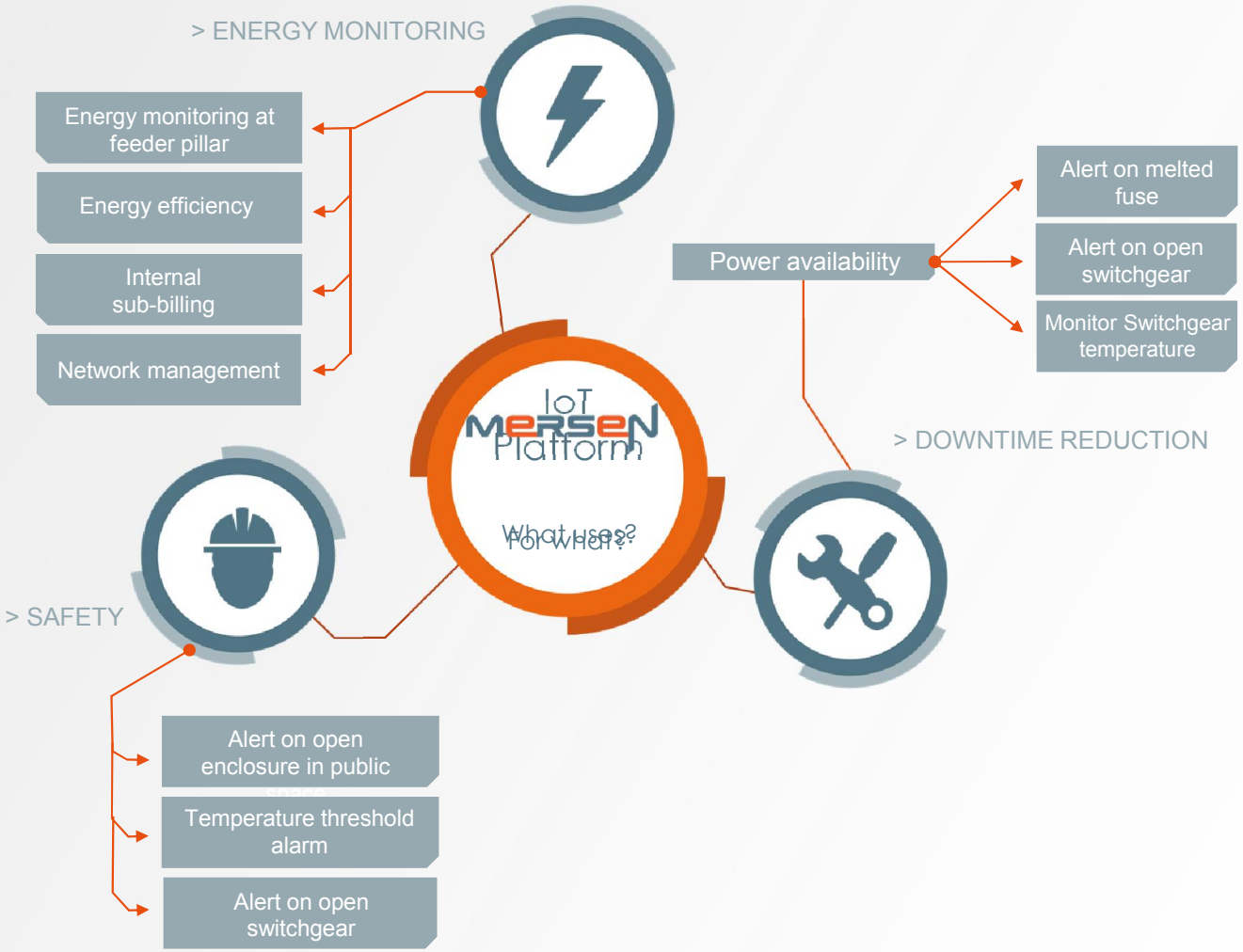
Product range - Overview

- **Technical standards**
  - MULTIBLOC® and MULTIVERT® series are tested and certified to
    - IEC/EN 60947-3
    - VDE 0660 part 100
  - Self-extinguishing and shock resistant plastic materials (UL94 classified)

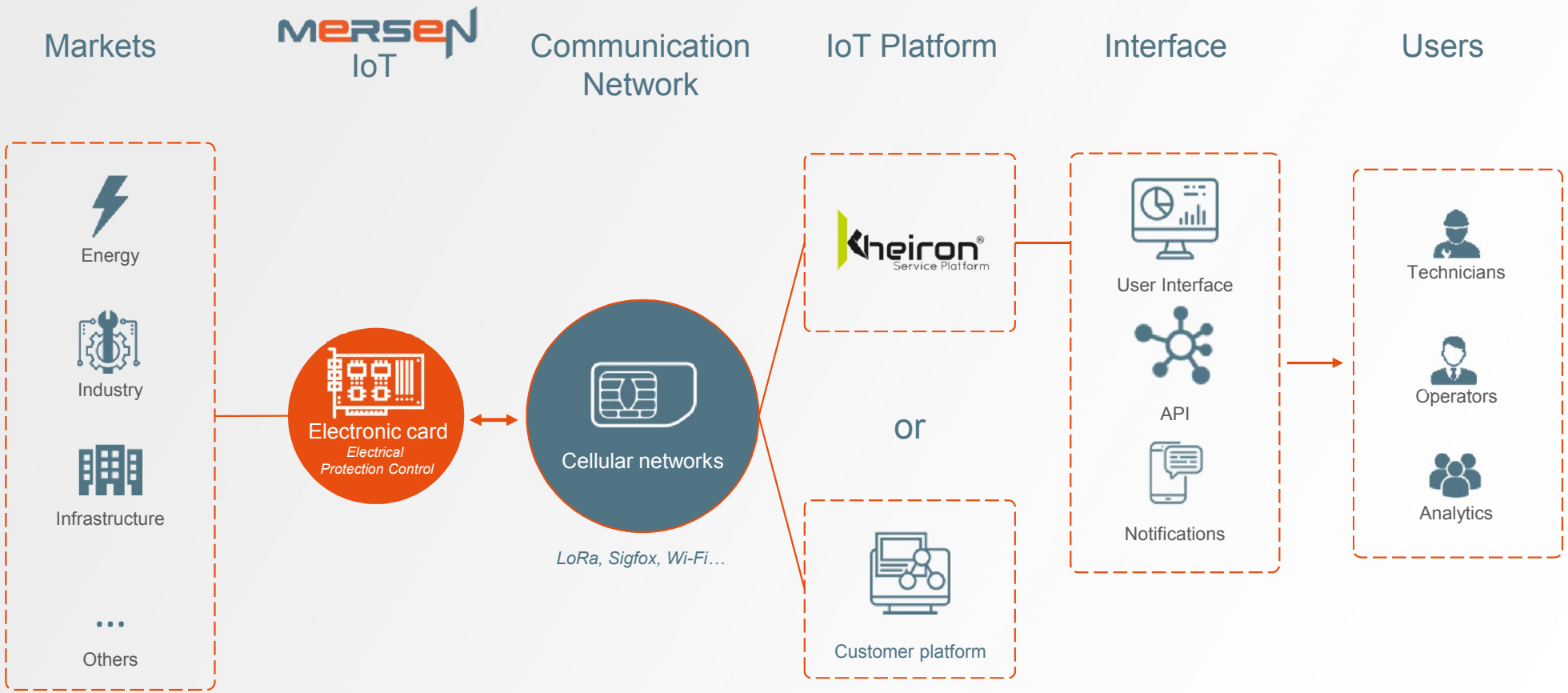
- **Main product features**
  - Protection , isolation and separation function
  - Touch protection IP 30 with closed central cover
  - Easy and fast installation on mounting plate/Bus bars 60mm to185mm / DIN rails
  - Large variety of cable terminal connections
  - Compatible with a variety of cable distribution enclosures
  - Modular design & various accessories

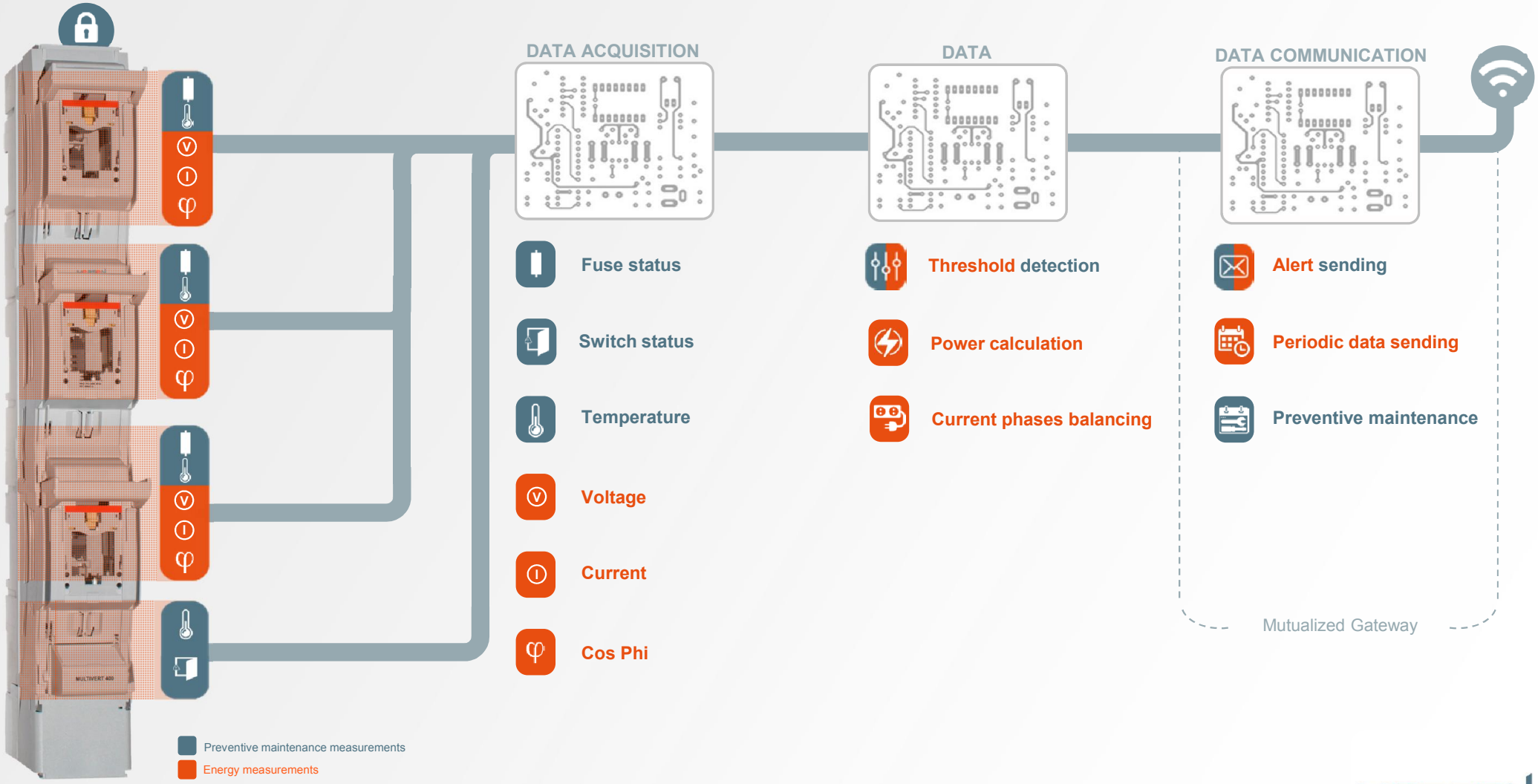


Interactive Fuse Switch Disconnector

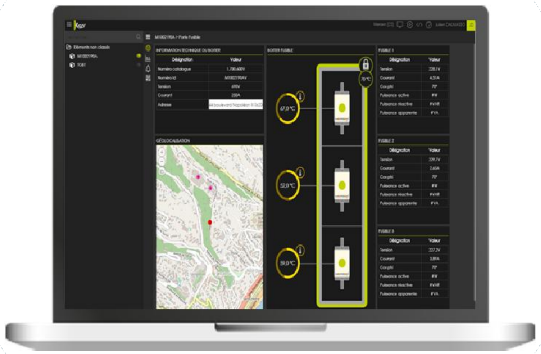

> ENERGY MONITORING
Energy monitoring at feeder pillar
Energy efficiency
Internal sub-billing
Network management
Power availability
Alert on melted fuse
Alert on open switchgear
Monitor Switchgear temperature
> DOWNTIME REDUCTION
IoT
MERSEN
Platform
What uses?
For when?
> SAFETY
Alert on open enclosure in public
Temperature threshold alarm
Alert on open switchgear

The Internet of Things communication architecture




DATA ACQUISITION
DATA
DATA COMMUNICATION
Fuse status
Switch status
Temperature
Voltage
Current
Cos Phi
Threshold detection
Power calculation
Current phases balancing
Alert sending
Periodic data sending
Preventive maintenance
Mutualized Gateway
Preventive maintenance measurements
Energy measurements

Platform features



- Melted fuse detection
- Open switch detection
- Temperatures monitoring
- Energy monitoring
- Switchgear geolocation
- Threshold alerts

Notifications



Recipients

- Facility manager
- Maintenance Repair Operator

Watch the live demo

