



PCS ELEKTRONİK
Mühendislik ve Danışmanlık

Control and Automation System for Aquaculture Industry



Marine Cages



Fish Breeding Ponds



Land Ponds



Fish Transport Trucks

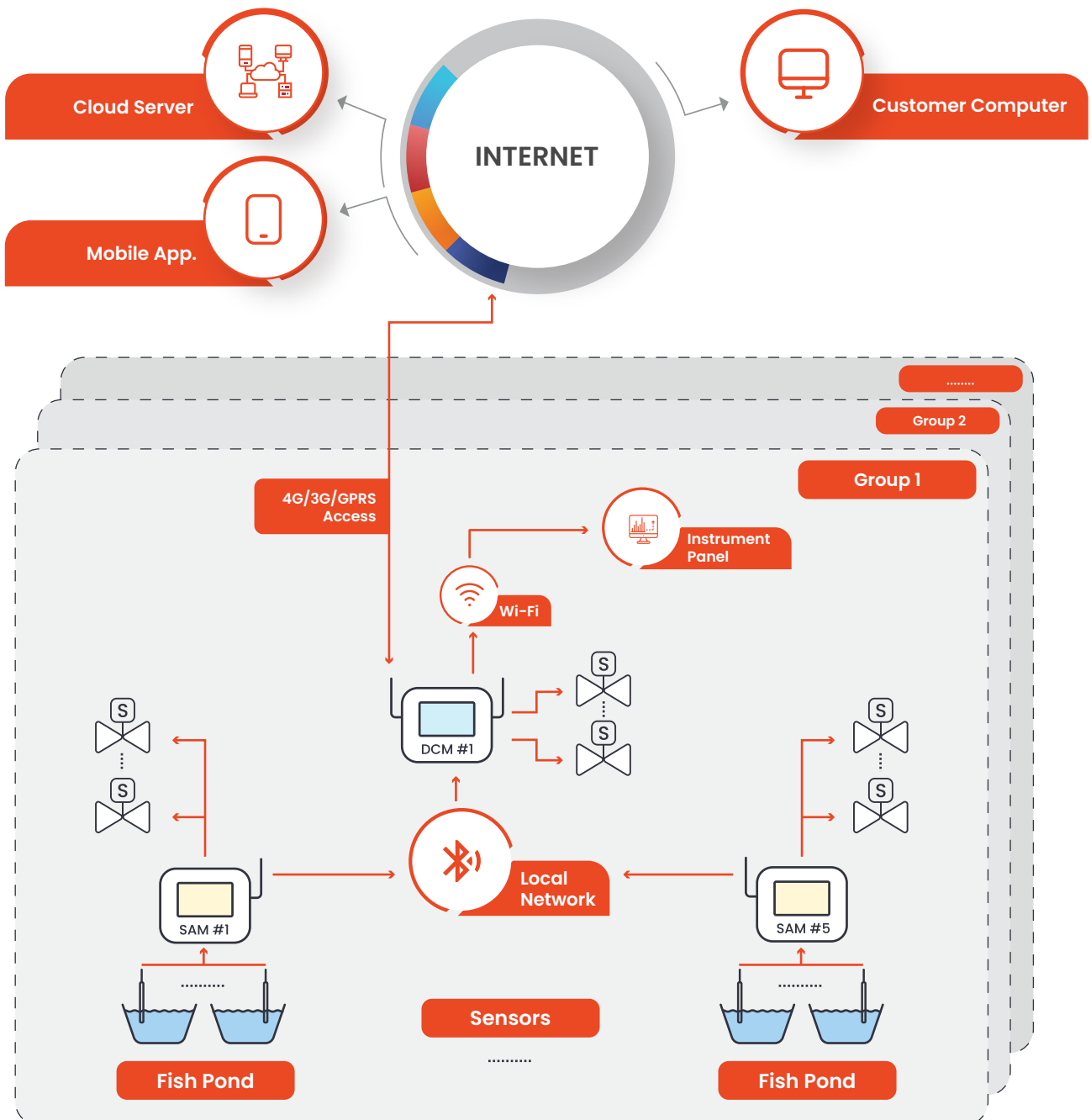


Fish Transport Vessels

- ✓ Ideal measurement and automation system for land ponds, transport trucks, open sea and inland water cages and fish transport vessels
- ✓ Provides reliable measurement and long life in salty and fresh waters with new generation numerical sensors
- ✓ Remote access and control via mobile phone app. and computer, thanks to the cloud-based system
- ✓ Low installation cost with wireless data connection
- ✓ Designed and manufactured in Türkiye

System Structure

- Local access and control via instrument panel and remote access and control via mobile phone app. and computer
- Low latency alarm and data transmission via 4G/3G/GPRS internet access
- Stand alone solar power operation (opt.)
- Battery backup power supply
- Easy expansion with modular system structure
- Low installation cost with wireless data connection
- Flexibility of setting alarm values for each sensor independently
- Triggering audible and visual alarm, switching on and off valves and pumps

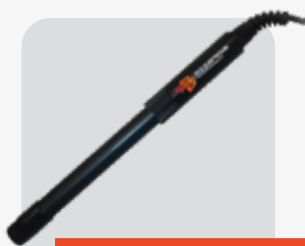


Sensors



Dissolved Oxygen

- Titanium, Plastic or Stainless body
- Accurate result by optical measurement method
- 0.00–20.00 mg/L, 0–200% measuring range
- Integrated temperature measurement
- MODBUS digital interface
- Pressure, temperature and Salinity correction
- IP68 environmental protection



pH/Redox

- 0–14 pH measuring range
- +1000.0/–1000.0 mV Redox measuring range
- Potentiometric measurement method
- Integrated temperature measurement
- MODBUS numerical interface
- IP68 environmental protection



Turbidity

- 0–4000 NTU, 0–4500 mg/L measuring range
- IR (850 nm) nephelometric measurement method
- Integrated temperature measurement
- MODBUS numerical interface
- IP68 environmental protection



Conductivity/Salinity

- Precise measurement with 4 electrodes
- 0–200 mS/cm conductivity
- 5–60 g/Kg salinity measuring range
- Integrated temperature measurement
- MODBUS digital interface
- IP68 environmental protection

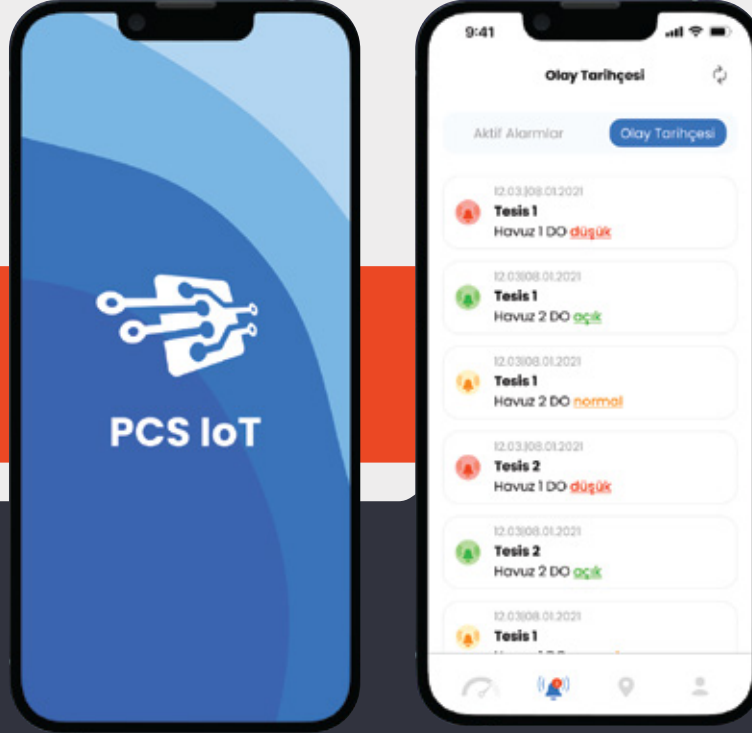


Redox

- +1000.0/–1000.0 mV measuring range
- Integrated temperature measurement
- MODBUS digital interface
- IP68 environmental protection

Aquaculture Automation Process

- The dissolved oxygen (DO) level in the ponds and cages are measured 24/7
- Alarm levels can be adjusted for each sensor from the touch screens on the SAM and DCM modules
- Oxygen supply valves are opened to deliver oxygen to the pool during alarm condition
- pH, redox, salinity, conductivity and turbidity sensors can also be added to the system when needed
- Measured parameters can be monitored via instrument panel, mobile application and computer
- Valves and pumps can be remotely controlled via mobile application and computer



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