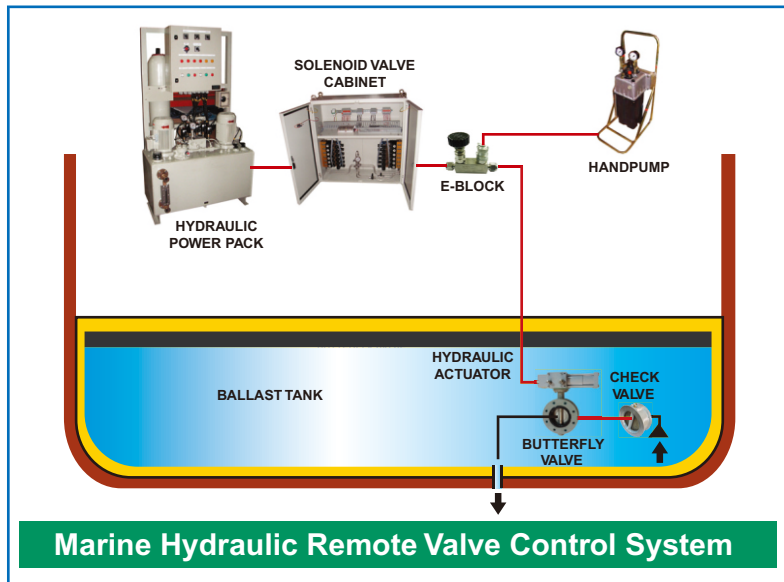
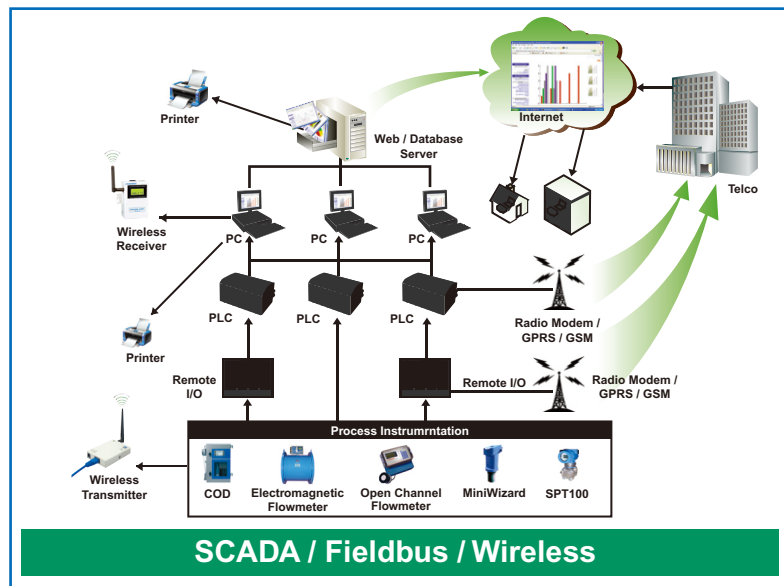




## Process Control and Instrumentation



## System Integration



## SCADA and Wireless Communication

### Positive Displacement Flowmeter



- Meter size DN 15 to DN400 (standard)
- Viscosity: Up to 20000 mPa.S
- Medium temperature: -20 to 250°C
- Accuracy:  $\pm 0.5\%$  or better
- Cast steel construction, option for SS304 / SS316
- Heating jacket available upon request

### Electromagnetic Flowmeter



**EFS 801/CFT181 -  
Integral Flow Transmitter**



**EFS801/RFT201 -  
Remote Flow Transmitter**

- Liner: Polyurethane / Hard rubber / PTFE / PFA
- Accuracy:  $\pm 0.5\%$  or better
- Meter size: DN 10 - DN 3800 (3/8" -152")
- Communication: Profibus - PA / HART / RS485

### Clamp-on Ultrasonic Flowmeter



**TUF333- Wall Mounted**

- For pipe size: 13 to 5000mm
- Accuracy: Up to  $\pm 1\%$



**TUF339- Portable**

- For pipe size: 13 to 2000mm
- Accuracy: Up to  $\pm 1\%$

## Variable Area Flowmeter



**MT28**



**MT29**

### MT28 / MT29 - Metal Tube

- All-metal rugged construction
- Resistant to extreme chemical, mechanical and thermal loads
- Stainless steel wetted parts, option for PTFE liner
- Certified for use in hazardous area
- Heating jacket is available upon request
- Accuracy Class: MT28: 1.6 / MT29: 1
- Meter size: MT28: DN15 - DN 100 (1/2" - 4")  
MT29: DN15 - DN150 (1/2" - 6")



**GTG20 - Glass Tube**

- Meter size: 1/2" - 2"
- Accuracy class: 1.0
- Stainless steel housing
- Threaded, flange, sanitary & tubing connection available



**MGT30 - Miniature Glass Tube**

- Meter size: 1/4" FNPT
- Accuracy class: 2.5



**MMT18 - Miniature Metal Tube**

- Meter size: 1/4" FNPT
- Accuracy class: 4

## Ultrasonic Levelmeter



**SUT - Solid Level Transmitter (Solids Applications)**

- Measuring range: Up to 120m
- Accuracy:  $\pm 0.25\%$



**MiniWizard - 3 Wire Level Transmitter**

- Measuring range: Up to 10m
- Accuracy:  $\pm 0.25\%$



**LevelWizard - Liquid Level Transmitter / Open Channel Flowmeter**

- Measuring range: Up to 25m
- Accuracy:  $\pm 0.25\%$

# LEVEL

## Radar



Self Adjusting  
"Smart" Radar  
EX Proof



"Smart" Radar with  
Sanitary Process  
Connection

### Non-contact Level Measurement

- High accuracy level measurement for liquid or solids with aggressive products in vacuum, high pressure and temperature.
- Measuring range up to 70m

## Level Switch



VLS Series - *Vibration Type*  
(For Powdered, Grained & Granular  
Bulk Solids)

- Power Supply: 20 ... 250V AC/DC
- Options for high temperature application or extended insertion length



LS880 - *Level Float Switch*

- Material: Stainless steel or PVC
- Connection: Flange or threaded



BW17 - *Side Mounted Level Float Switch*

- Stainless steel wetted parts
- Connection: Flange

## Magnetic Float Level Indicator



MLG28 - *Magnetic Type Float Level Indicator*

Cost effective magnetic level gauge for liquid level applications. Available in stainless steel, PVC, PTFE lined stainless steel. Optional: Switches and remote signal transmitter (4-20mA)

## BULK FLOW



**Weighing Bridge**

**Signal Converter**

**Speed Sensor**

**WeighWizard - Retrofittable Weighing System**

- Weighing system able to retrofit on existing silos structural support
- Maintenance free weighing system

**Beltscale 802 - Single Idler**

- Stainless steel weighing frame
- Accuracy:  $\pm 1\%$
- Indications of flow rate, totalized weight, belt load and belt speed
- Capacity available: 20kg, 50kg, 100kg & 200kg



**Uniflow - Solids Flowmeter**

- Flowable solid density between (0.02 - 2.5kg/l)
- Flow range 1 - 50m<sup>3</sup>/h
- Constant flow rate for extruder feeding, batching and bag filling
- Accuracy:  $\pm 1\%$

## PROCESS VISION



**Process Camera**

- Viewing and on-line particle analysis, level, volume, colour
- Flange & tri-clamp connection measurement and control
- Option available for ethernet network video camera

**Process Lighting**

- Lighting systems to illuminate tank or vessel for optimal viewing
- Sanitary & industrial applications

**Sight Glass**

Greatly increases safety over the traditional tempered glass or plastic windows used in aseptic and sanitary applications.

## PRESSURE



### Pressure Transmitter

- Accuracy <math>\lt; \pm 0.1\%</math>
- Range: 50mbar to 1000 bar



### UHP Pressure Transmitter

Ultra-high purity pressure sensor with tube stubs / swivel face seal connection

- Accuracy: Up to  $\pm 0.05\%$



Pneumatic Handpump



Hydraulic Handpump

### Combopump / Test Gauge / Calibration

#### Pneumatic Handpump

- Pressure up to 35 bar
- Vacuum up to -0.85 bar

#### Hydraulic Handpump

Pressure up to 700 bar



### Differential Pressure / Flow Gauge

Switch contact in weather-proof or explosion proof enclosure

- Accuracy: <math>\lt; \pm 0.2\%</math>



### Pocket Size Pressure Calibrator

Wide range pocket size precision pressure calibrator

- Accuracy:  $\pm 0.05\%$
- Available in single & dual range



### Multi Function Pressure Calibrator

A very accurate field pressure calibrator that records and displays data graphically

Accuracy: Up to 0.1%



### Digital Pressure Gauge

High accuracy and most rugged pressure gauge

Accuracy: 0.025%

Option: Remote display



### Pressure Comparator / Deadweight Tester

- Range: Up to 700 bar
- Available in single or dual piston



### Pressure / Vacuum / Differential Switch

- Internal / External adjustable ranges
- Weather-proof, explosion proof - Approval UL / CSA / BASEEFA / CENELEC
- Available wetted parts are stainless steel, polyimide aluminum, hastelloy C & monel

# TEMPERATURE



## Temperature Gauge

- Bimetallic / gas filled type
- Various stem lengths available



## Temperature Switch

- External adjustable ranges
- Weather-proof, explosion proof - Approval UL / CSA
- Wetted parts: Stainless steel



## Temperature Transmitter

- Accuracy:  $\pm 0.1\%$  of input span
- Programmable
- HART



## RTD/Thermocouple & Thermowell

- Customised sensor / element
- Customised thermowell available



## Temperature Calibrator

- Accuracy:  $\pm 1^\circ\text{C}$
- Stability:  $\pm 0.1^\circ\text{C}$
- Measuring range up to  $+850^\circ\text{C}$

## INDICATOR



### Field Mounted Process Indicator

- 4 digit display in engineering unit
- Choice of aluminum or SS316 enclosure
- Explosion proof

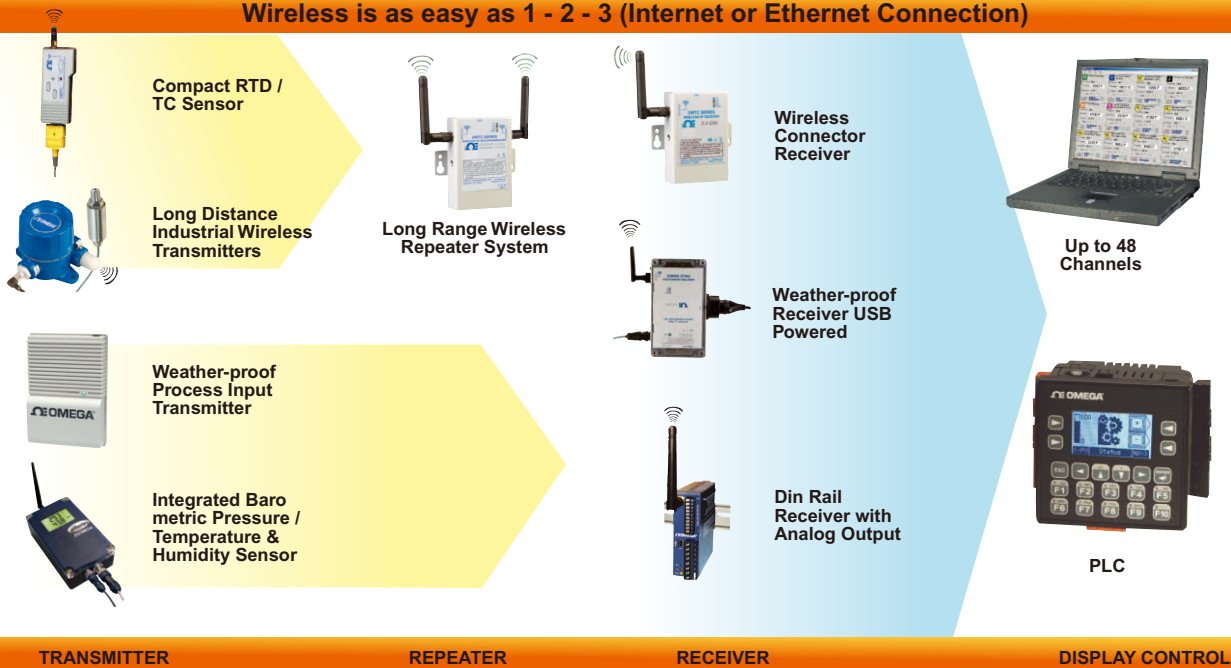


### Digital Indicator / Controller

- Scaling in wide range of engineering units
- Built-in excitation
- Analog output optional

## WIRELESS COMMUNICATION

Wireless is as easy as 1 - 2 - 3 (Internet or Ethernet Connection)



## FIRE & GAS



Electrochemical



Laser Based Open Path Gas  
Detection for H2S or CO2



Point IR Gas  
Detector



Catalytic Gas  
Detection



Fire Detector



Multisensor Fire  
Detector

## HIGH PURITY GAS FILTER



Gas Shield POU Filter

- High strength nickel filter media
- Flow rate up to 150 slpm
- Rugged, high quality construction
- 9 logs reduction value



Utility Line and Bulk Filters

- All metal construction for high temperature and pressure capabilities
- All-welded construction eliminates leaky seats
- Fully sintered PENTA<sup>®</sup> media offers high flow and low differential pressure



Gas Shield Defender

- 316L stainless steel
- True 9-log filtration efficiency of particles as small as 0.003 $\mu$ m; confirmed at the most penetrating particle size of 0.0 $\beta$ m
- Operating pressure to 3000PSIG (206.8 bar) at 52°C

## ANALYTICAL

### Moisture Dewpoint / Relative Humidity



#### MDM300 / MDM300 IS

A high-speed dew-point hygrometer for repeatable, fast and accurate moisture content measurements.



#### Easidew TX I.S.

An ATEX certified, 2-wire, rugged impedance dew-point transmitter for continuous measurement.



#### Analyzer Complete with Sampling System

We customize, design and build sampling systems to fulfill user's specific application and installation requirements either in cabinets or on racks.

### Process Refractometer



- For concentration measurement
- Measurement not influenced by particles & crystals
- No signal drift
- No need for regular calibration

### Online Water Analyzer



Suspended Solid /  
Turbidity Analyzer



pH / ORP and  
Conductivity Analyzer

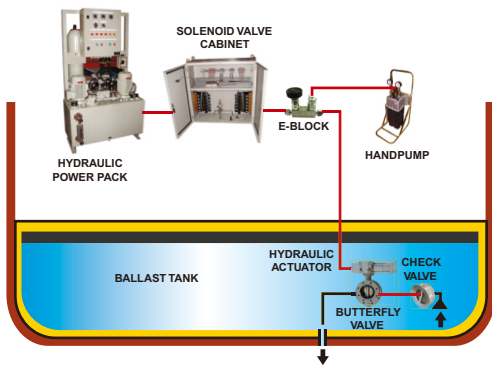


Analytical Instruments for Water  
Steam Cycle

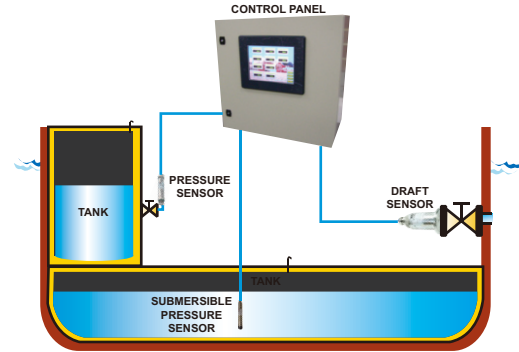
# SYSTEM

## Marine / Offshore

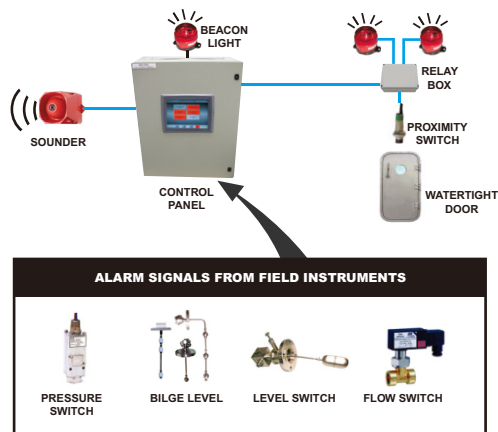
### Remote Control System



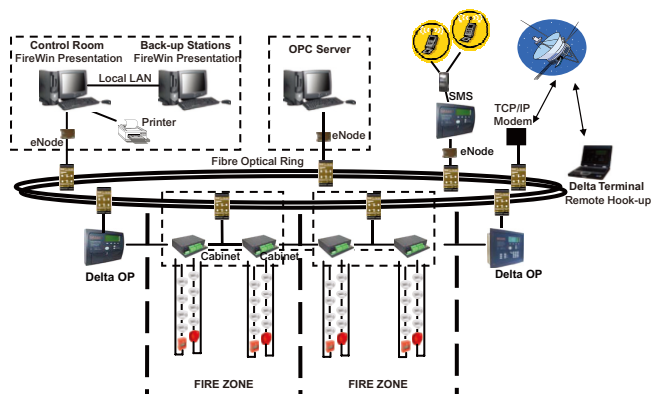
### Tank Gauging System



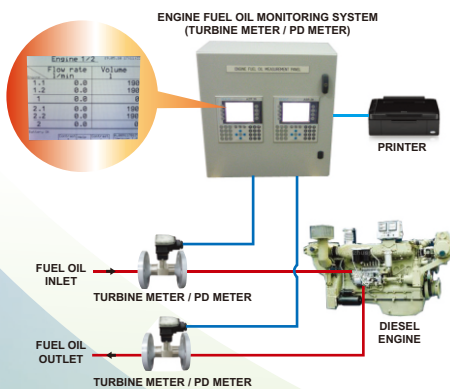
### Alarm Monitoring System



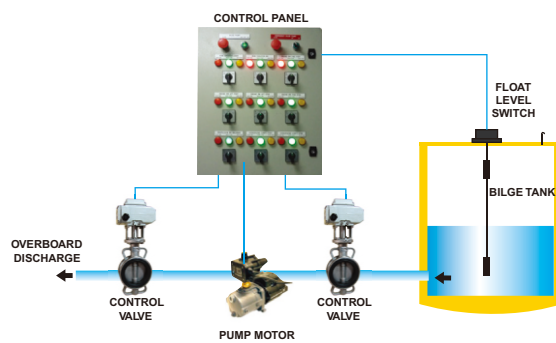
### Fire & Gas Detection System



### Engine Fuel Oil Monitoring System



### Bilge Control System



# SYSTEM

## Water Treatment

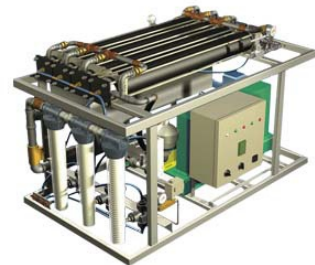
### Sewage Treatment

- Certified Acc to MEPC.159(55)
- High manufacturing quality; marine type system able to resist wear and tear at marine conditions
- Low purchasing and installation cost
- Small volume and footprint suitable for small and narrow spaces
- Compact unit with simple and automatic operation



### Fresh Water Generator R.O. System

- To produce fresh water from the desalination of sea or brackish water
- Modular scale of units available dependency on the production of fresh water
- Can be installed on small sailing and motor ships and also used at any offshore application



### Ballast Water Treatment System

- IMO, USCG, Transport Canada, ABS, DNV, EC MED (Marine Equipment Directive) approved
- Oil-in-water contents consistently below 5 ppm
- Automatic heavy oil separation and removal
- Non-pressurized three-stage vessel
- PLC driven system and shipboard alarm interface
- Variable processing speed to set flow rates



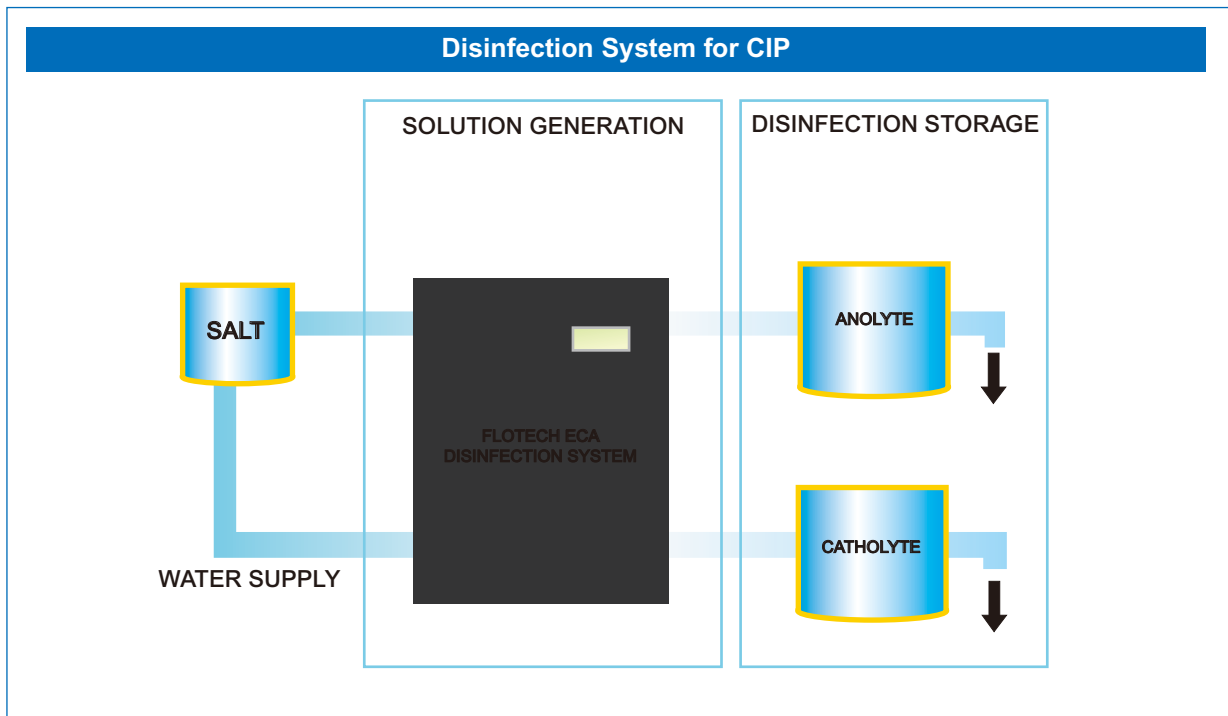
### Oil Purifier

- Water Separator for mineral and synthetic oil
- Efficiently removes 100% of free water and gases
- 90 – 100% of dissolved water and gas

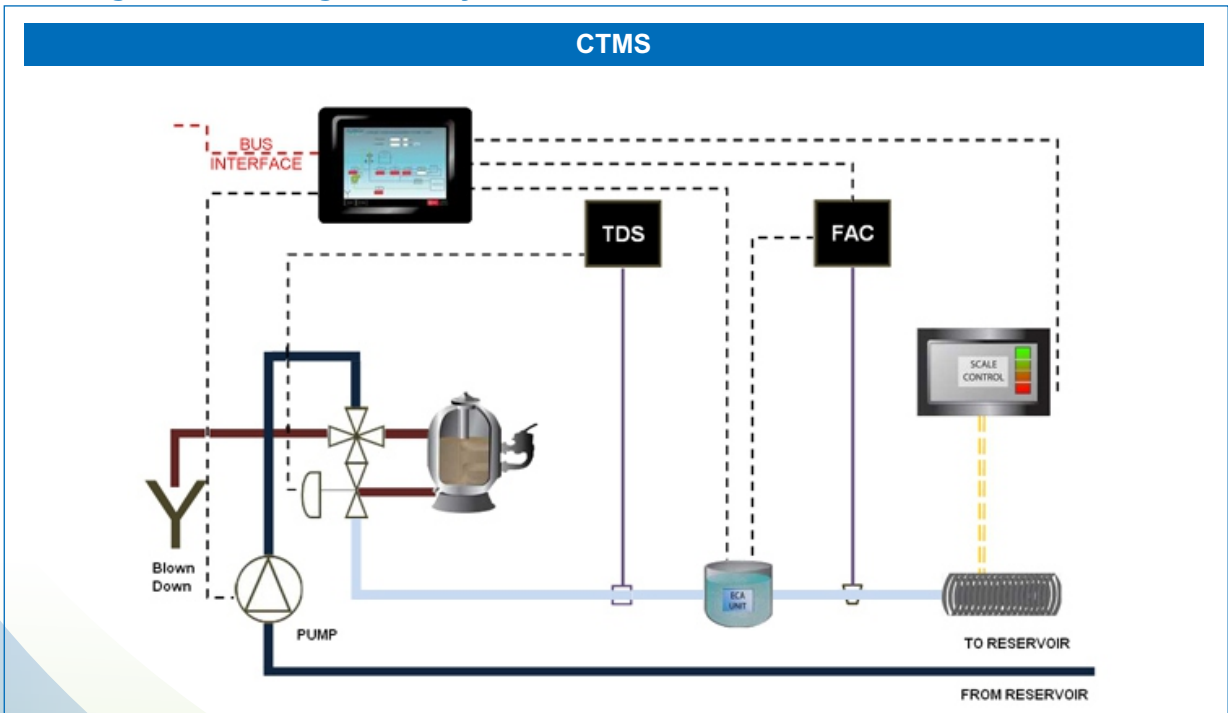


# SYSTEM

## Disinfection System



## Cooling Tower Management System

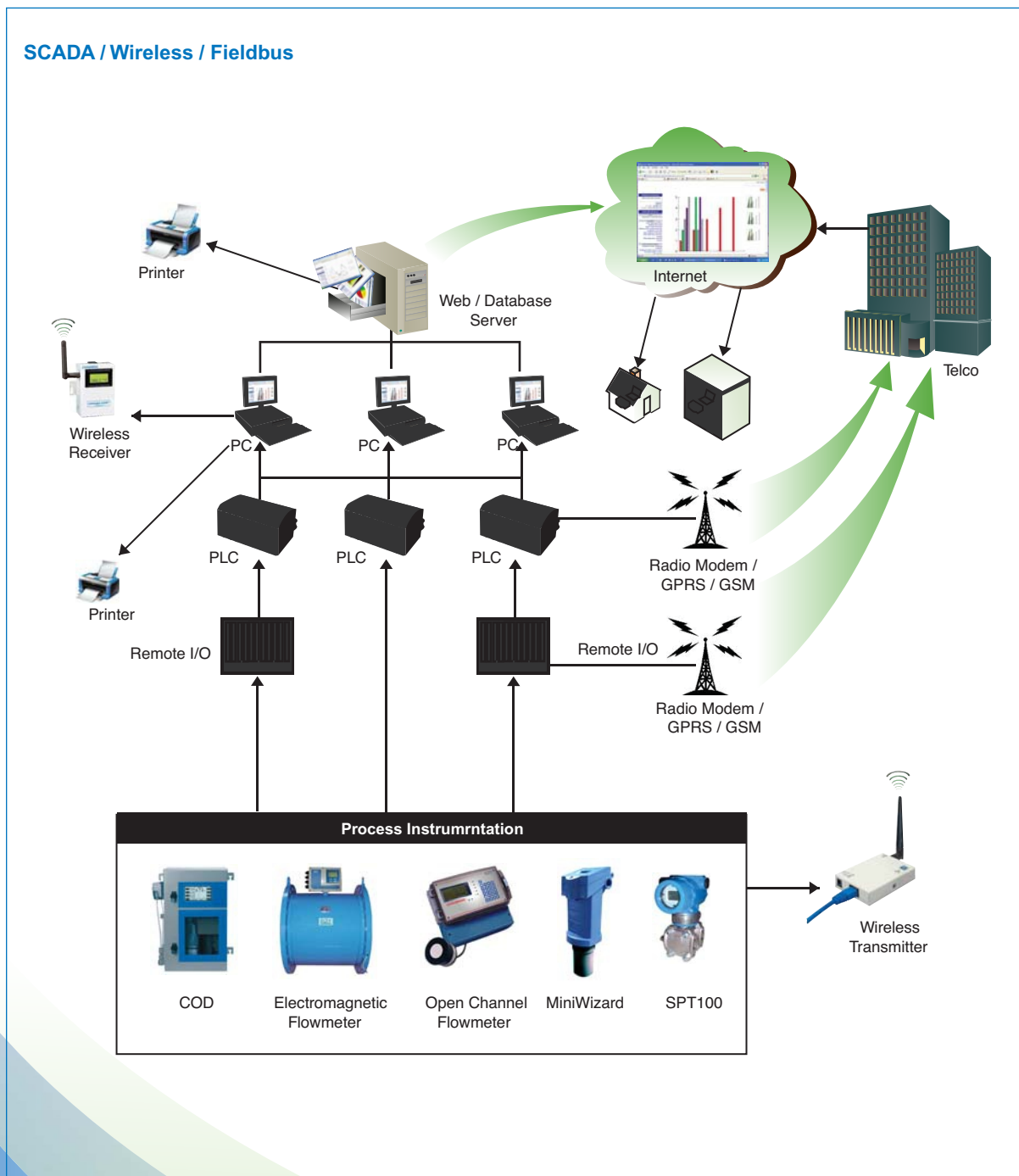


## COMMUNICATION

### Supervisory Control and Data Acquisition:

Flotech now offers complete plant control and management system integration from sensor through to enterprise-wide management information systems.

Solutions are customised to suit individual client application needs and are implemented using the most appropriate controller hardware and HMI configuration.



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