



CPC PROCESS CONTROL INSTRUMENTATION
CPC WATER TREATMENT SOLUTION PVT LTD
CPC GREEN ENERGY ENGINEERING PVT LTD

CRYOGENIC PROCESS CONTROLS

An ISO 9001:2015 CERTIFIED COMPANY

www.cpcinfo.in



ABOUT CRYOGENIC PROCESS CONTROLS

CPC emerged in 2010 with a clear motive of providing solutions & services in the field of instrumentation and to exhibit a clear differentiation in the market for providing amicable & affordable instrumentation and automation solution. The three verticals has built up an enviable reputation and carved a place of pride venturing into the field of water and waste water treatment and Renewable energy management. It is the determination to transform every challenge into opportunity to seize every opportunity to ensure growth. A highly applauded and awarded group of Companies.

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The pride of CPC itself for having tremendous amount of talent and a dedicated work force Its major philosophy is to create value for client's satisfaction through a culture of continuous service and solutions.

OUR STRENGTH

The manufacturing Of CPC envisions is to play an indispensable rôle in a global supply chain. Manufacturing strategy is to produce superior quality product suitable for functionality, structural integrity, and conformance to the established industrial standards and practices which provides consistency of product quality, optimum availability, and superior customer service, While maintaining efficiency of operations and profitability necessary to continue product improvisation and customer satisfaction.

OUR NETWORK

Business operations and the network spread across the southern part of India having Chennai as head quarter and factory. Sales and service support offices at Hyderabad and Bangalore. Our network is further expanded globally with sales support partners located at Dubai for Middle East North Africa (MENA) and Egypt Region & at Malaysia for South East Asia Pacific Region.



The New CET200F Mag Flowmeter comes with various upgraded features. The Flowmeter can be generally divided into two parts. The sensor performs the work of measuring the fluid medium and the transmitter interprets the measured value and indicates us in a readable format. our new "CET200F" is no different in this. It has two major parts the sensor and the transmitter. What makes "CET200F" is the different categorical sensors we provide to cater to the market segments we operate unlike the opposition in our tier segment. This is the new blend we bring into the market to be more superior on technicality as well as price competitive in our market segment

"U" SENSOR – FLANGED DESIGN

- The universal sensor for all / most Industrial application needs
- Flanged design with ANSI CL 150 B 16.5
- Rubber Liner options of PTFE & PFA
- Temp range max upto 150 deg.
- IP 68 option for buried / under-water Installation
- Optional SS flange
- SS316 electrode, optional haste-alloy c sensor



"W" SENSOR – WAFER DESIGN

- The basic sensor for all low cost applications
- Comes with PP liner material
- Temp range upto 60 deg c
- Compact design for modular installations.
- SS316 electrode



"P" SENSOR – FLANGED DESIGN

- The high-end premium sensor for tough process applications
- Flanged design with ANSI CL 150 B 16.5
- Full SS design for corrosive environments
- Optional titanium electrode for high aggressive media



CCT 100F

- Clamp on design.
- Suitable for pipes from 15-6000mm.
- Built-in data logger and flow totalizes.
- Optional batch process controller
- 230 V AC power supply
- 4x20 Alphanumeric display
- Die cast aluminum transmitter casing with IP 65 protection

CPT 200F

- Handheld design
- Rechargeable 3AAA Ni-H Built-in batteries
- Measuring Range from 15mm to 6000mm
- 4x20 Alphanumeric display
- RS 232 C Communication interface.
- Optional inbuilt data logging upto 2000 points.

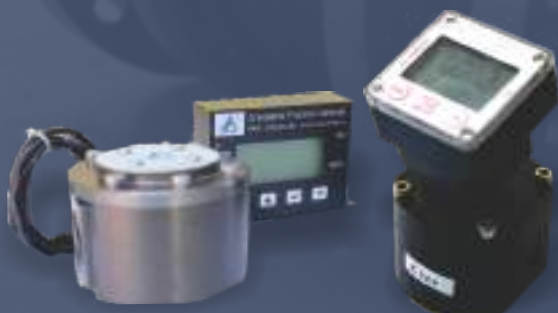
The CPT200F and CCT100F are one of a kind non-contact flow measurement used for Applications where flow measurement is possible without interruption or cutting of pipe lines. These devices works based on transit time principle.



UFM

OGFS

Our COT 100F Oval gear flow meters are designed for high viscous fluids measurement. The application of these flow meters include flow metering of oils, syrups and fuels.



STANDARAD DESIGN

- Housing - Aluminum anodize.
- Rotor- aluminum anodize
- Sensor size from 4mm to 80mm.
- Process connection –flanged/ threaded
- Battery operated & power supply options
- Output options chooseable between 4-20mA/RS 485.

HYGIENIC DESIGN

- Housing - SS316
- Rotor- SS316
- Sensor size from 4mm to 80mm.
- Output options chooseable between 4-20mA/RS 485.

MECHANICAL FLOWMETERS

HELICAL FLOWMETER

- Available in SS/PPR materials
- Standard food grade :PA 66 + 33% GF,
- Optionally available : PPS/PEEK/POM
- Available with optional output : 2.5 Vdc/ 5 TO 24 Vdc, Reed switch with Pick up coil
- Sensor sizes available from 4 mm to 40 mm.
- Optional battery operated display.



TURBINE FLOWMETER

- Available in SS/PPR materials
- Optionally food grade :PA 66 + 33% GF
- Sensor sizes available from ¼ inches to 2 inches.
- Optional battery operated display.

CUT 100L – ULTRASONIC LEVEL TRANSMITTER

- Transit time principle-Ultrasonic waves
- 2 wire, 24v dc
- Measuring range from 4m to 30m
- Process temperature range upto 75 deg C
- Available with various sensor material ABS/PVC/PTFE
- Aluminum powder coated electronic housing with IP 67 protection class
- Available process connection –flange/thread/bracket.
- Available signal output-4-20mA, RS 485 Signal communication



LEVEL TRANSMITTER



CHT 100L - HYDROSTATIC LEVEL TRANSMITTER

- Hydrostatic level measurement
- Measurement range 0-3-200mH2O
- Available in 2-wire and 3-wire type
- Available signal output 4-20mA/0-5 V, 0-10V
- Power supply with 230VAC/24VDC
- Compatible to corrosive medium
- SS Sensor housing
- IP 68 Protection class

SOLUTIONS

- Smart Water Metering
- Online Monitoring System
- Diesel Unloading System
- Batch Controlling



SERVICES

- Calibration Services
- Annual Maintenance Services
- Water Flow Audit
- Installation and Commissioning



CPC WATER TREATMENT SOLUTION PVT LTD – A UNIT OF CPC

We provide various solutions for treatment of water and waste water ensuring pollutant free water Environment.





WE FOCUS ON

WATER TREATMENT

- Raw Water Treatment
- Water Softening, De-mineralisation & Condensate Polishing
- De-salination
- Cooling Water Treatment

WASTE WATER TREATMENT

- Waste water / Sewage treatment
- Effluent Treatment
- DM Plant

FILTRATION

- RO Filtration
- Nano Filtration
- Ultra Filtration

PROJECT CONCEPTS

PROJECT DEVELOPMENT

- Feasibility Studies
- Environmental Impacts
- Lab/Pilot studies
- Pilot & demonstration plants
- Project management consultancy

DESIGN AND ENGINEERING

- Conceptual design
- Process design
- Basic design
- Design review
- Front end Engineering
- Detailed Engineering

PROJECT EXECUTION

- Design & build (Turn key, EPC & Equipment supply)
- Construction Management (Project management, Procurement assistance, Inspection supervision & Supervision & Commissioning)

OPERATION & MAINTENANCE

- Operation management
- Optimisation
- Troubleshooting
- Operation & Maintenance
- HSE services
- Operational support & Technical services

STP

TREATMENT TECHNOLOGIES OFFERED

CONVENTIONAL ACTIVATED SLUDGE PROCESS | SBR | FBBR | MBR | ELECTRO COAGULATION



ETP

Effluent treatment Plant is one of the waste water treatment which is particularly designed to purify the industrial waste water for its reuse and its aim to release safe water to environment. Effluent treatment facilities for small and medium scale industrial estates. Depending upon the nature of effluents treatment plant configuration includes

BIOLOGICAL TREATMENT (Single stage or Two stage)

- Aerobic/Anaerobic, Activated sludge, UASB & UFB type anaerobic process

PHYSIO-CHEMICAL TREATMENT

- Clarifier, Plate interceptors, Clariflocculators, Air filtration, Chemical dosing and mixing.

TERTIARY TREATMENT

- Pressure sand filter & Activated carbon filter.

APPLICATIONS

- Textile industry
- Leather industry
- Chemical & Drug industry
- Automobile industry
- Laundry & kitchen
- Food & Beverage industries
- Oil & Gas industry
- Power plants

ULTRA FILTRATION

Ultra filtration (UF) is a variety of membrane filtration in which forces like pressure or concentration gradients lead to a separation of suspended solids and removable organic materials through a semi permeable membrane. This separation process is used for purifying macromolecular 103 - 106 Daltons.

Ultra Filtration treatment comes under the below situations.

- Post Treatment of STP & ETP
- Pre treatment for Reverse Osmosis



REVERSE OSMOSIS

Reverse osmosis (RO) is a water purification technology that uses a semi permeable membrane to remove larger particles from drinking water. It can remove many types of dissolved and suspended species from water, including bacteria, and is used in both industrial processes and the production of potable water.

APPLICATIONS

- Desalination of seawater
- Production of ultrapure water
- Wastewater treatment



DM Plant

Demineralization is the process of removing mineral salts from water by using the ion exchange process. The following ions are widely found in raw water:

Cation - Calcium, Magnesium, Sodium, Potassium etc.

Anion - Chloride, Bicarbonate, Nitrate, Carbonate etc.

Standard plants are skid mounted with a plant capacity 5-15 m³/hr for small and medium size industries such as textile, pharmaceuticals & chemical etc. for generation of steam or process water.

The package comprises combination of various units depending upon the water quality requirement and may include:

- Pressure sand Filter / Dual media filter / Activated carbon filter
- Upflow packed column cation/anion exchanger
- Chemical doser

Medium & large treatment scale plants involve treatment like:

- Filtration
- Demineralisation with cation / anion / mixed bed exchangers with counter current mode regeneration system
- Degasser system
- Chemical dosing system

Combination of DM and RO plant can be worked out if the feed water dissolved solids exceeds 600 to 800 mg/lit.

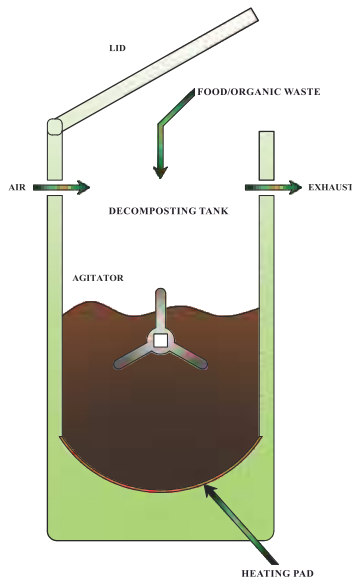
CPC GREEN ENERGY ENGINEERING PVT LTD - A UNIT OF CPC

Green Energy Engineering unit was formed as a solution provider for reducing the green house gases responsible for "Global Warming". Efforts are made to conserve ecological balance, we have also taken green initiatives, resources conservation, and water conservation, in consideration to create "green oasis". We Provide Effective and Unique Solution to All Kinds of Bio-degradable Waste into Compost through Food Waste Treatment Plant. We are Capable Decomposing all kind of Bio-degradable waste which includes Food Waste, Garden Waste, Poultry Waste, Sludge Etc., Into Compost Within 24-48 Hrs With 85-90% Of Volume Reduction. Its shows our remarkable organic waste management.



FOOD WASTE TREATMENT PLANT

It Involves the process in which micro organisms converts Food Waste into compost. The compost looks like dry soil & is an excellent medium to grow. The entire process is natural & biological.



How FWTP-18 Works?

FWTP-18 is a fully automatic and highly compact composting where special kind of micro organism is used to breakdown and decompose organic waste. The entire process is aerobic, natural and biological. Our special micro organisms thrive in high temperature and are effective even in high acidic or salty conditions. Specially designed "U-shaped" composting tank, with a humidity sensor, due to which the heater turns on and the composting tank gets heated. Due to this, the water content in the organic waste is evaporated and it goes out to the atmosphere as water vapor through the exhaust system. As any organic waste contains 70-80% water content, we achieve 70-80% volume reduction at this stage itself. And this happens within 24 hours. That's how we achieve 85-90% volume reduction. The process is completely noiseless as there is no crushing or grinding involved.

Model: Alpha : FWTP- α / α +

FWTP- α : Fully automatic Food Waste Treatment Plant, MS-Powder coated body, with PLC

FWTP- α + : All features of α Model (Fully automatic Food Waste Treatment Plant, MS-Powder coated body, with PLC) + HMI touch Interface



Model : Beta – FWTP- β / β +

FWTP- β : Fully automatic Organic waste Composter, stainless steel body, with PLC

FWTP- β + : All features of Model β (Fully automatic Food Waste Treatment Plant, stainless steel body, with PLC) + HMI touch Interface



Model: Gamma : FWTP- γ/γ+

FWTP- γ: Fully automatic Food Waste Treatment Plant, MS- Powder coated body/ stainless steel body, with PLC + inbuilt Shredder

FWTP- γ+ : (Fully automatic Food Waste Treatment Plant, MS-Powder coated body/ stainless steel body, with PLC + inbuilt Shredder) + HMI touch Interface

BIOGAS PLANT

Bio-Methanation process of organic waste such as food waste, kitchen waste, cow dung & sludge from Sewage treatment plant and generating bio-gas

- Ideal for 50 kg and above organic waste disposing capacities.
- Digester type- FRP based, Civil based.
- Customisable design.
- Suitable for big institutions and canteens, hotels.
- Portable bio digester for industrial and domestic usage.



CONTAINERISED RO SYSTEM

A pre-fabricated container based RO treatment system for modular industries where RO plant setup / installation land or space availability is scarce. Not a fixed system hence location change / facility change in future will go hassle-free.

- Suitable for 2000 LPH to 10000 LPH capacity
- Lower Capital Cost
- Portable Container Based Design.
- Optional Fully Automated / Semi-Automated System
- Quick installation – lower installation cost
- Limited civil work (only container foundation) with a small footprint
- Easy transportation
- Turnkey delivery including integrated process and mechanical equipment, piping, electrification and automation
- Mounting brackets throughout the container for securing equipment
- Central connection point(s) for all piping and electrical connections
- Lighting system, ventilation, air cooling and heating equipment, passage door with a lock
- Water corrosion resistant flooring system with non- slippery painting Heavy-duty water resistant and nonflammable insulation throughout the interior





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Sales Support Center - MENA (Middle East - North Africa):

📍 TechServe Electromechanical Works LLC
Elite Business Center, Al Barsha I, Dubai, UAE

Sales Support Center (South East Asia Pacific):

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