



Product Catalog

November 2022

Table of contents

Flecto Sense Concentrator	02
Flecto Sense Repeater	04
Combo unit for STS prepaid water	05
Customer Interface Unit	06
Pulse Counter Computer Transmitter	07
Post-paid Valve Controllers	08
Feature selections	09

Flecto Sense Concentrator **FSC0000**

Product Overview

The concentrator facilitates AMR (Automatic Meter Reading) to read meters on fixed network, walk-by or drive-by modes. The FSC works with all Kamstrup WMBus devices and the whole range of Flecto Sense WMBus products.



Main features

The system is unique in the way the data is always encrypted. You can count on accurate readings, timely responses, data that you can use and report the way you want to.

Feature technology

The FSC uses GSM for primary mode of communication. The system gets its power from the sun for charging the internal Li-ion pack. The higher the unit is installed the greater the coverage area will become. WMBus communication is sent directly to the cloud.

Details

The FSC records all the WMBus information four times an hour. These readings get sent to the Flecto Backend server where the data is stored for 32 days. The data can be viewed, exported, displayed, printed or imported into other systems. Standard integration via REST API or web portal access from smartphones, tablets and computers.

Reading Compatibility:	Kamstrup	Flecto Sense	Sensus
FSC-Solar	All WMBus Devices	All WMBus Devices	Most WMBus Devices
FSC-Indoor	All WMBus Devices	All WMBus Devices	Most WMBus Devices
FSC-Mini	All WMBus Devices	All WMBus Devices	Some WMBus Devices
FSC-Mobile	All WMBus Devices	All WMBus Devices	Most WMBus Devices

Flecto Sense Repeater **FSR0000**



Product Overview

The FSR Records all the WMBus information and sends the data on to the FSC or other concentrators. Many FSRs can be daisy chained to ensure coverage of a large site.

Works with all WMBus devices from Kamstrup and Flecto Sense and some Sensus Water Meters

Main features

Automatic meter reading to read meters on fixed network or drive-by modes. All data remains encrypted

Feature technology

An FSR can repeat up to 900 WMBus devices per hour and uses dynamic filtering to ensure that device data are not duplicated. The unit can be fitted with either a solar panel or 24V DC power supply to suit your design

Combo unit for STS prepaid water **SVC0000**

Product Overview

The Flecto STS Smart Valve Controller was designed to be compatible with the Kamstrup MC21 ultrasonic water meter to offer a smart wireless STS solution.



Main features

Secure encrypted wireless communication. Accurate prepaid revenue collection, control and monitoring. Configurable monthly free consumption allocation. Precise ultrasonic measurement (No pulse counting).

Feature technology

STS Compliant. Wireless communication between Smart Water Meter, SVC and CIU. Precise ultrasonic measurement. No external wiring. Drive-by reading ready. Fixed network data collection ready. 16 year battery life. IP 68 rating. Automatic shut-off when "tamper" is detected from MC21 or the SVC. Alarms and Warnings also displayed on the CIU.

Details

Our patented system is the first in the world that offers full WMBus encryption, securing your data from end to end. The valve allows throttling that can be configured based on parameters of usage and time of day. Our design offers superior battery life over our competitors' units.

Operation	Open	Throttle	Close
From CIU	Yes, only when credit is available	No	Yes
From FSC	Yes, only when credit is available	Yes	Yes

Customer Interface Unit CIU0000

Product Overview

The Flecto CIU was designed to be compatible with the Kamstrup / Flecto Sense wireless range of products.



Main features

Secure encrypted wireless communication. Use this device to read your meter remotely and load STS tokens on the SVC.

Feature technology

STS Compliant. Wireless communication between Smart Water Meter and SVC. Alarms and Warnings get displayed on the CIU. The CIU can be used to close and open the water remotely

Details

These units function as a means to carry the encrypted token to the SVC. Built-in alarms will warn the user of leaks, bursts and general information of the water system.

Pulse Counter Communication Technology

PCCT0001

Product Overview

The Flecto PCCT was designed to fill a gap in the market where units already have a pulse output on their water meters. Old-school water meters have a magnet fixed to one of the rotating wheels inside. Every time the magnet passes the magnetic reed switch, a pulse gets generated. These pulses are normally one pulse for every 10 liters but depends on the meter manufacturer. The PCCT can be configured to match the existing meter exactly.



Main features

The unit records the pulses locally and reports on the total pulses received. The unit features our standard Li-Ion battery for extreme long battery life and is packaged in a newly designed IP67 plastic enclosure.

Feature technology

Wireless communication bridging the gap between Smart Water Meter and Pulse meter units. Alarms and Warnings get transmitted to the FSC. Facilitates getting your data in one place, all the time.

Details

Simply add this unit to your existing water meter pulse output and you are good to go. Get your water meter readings via your smartphone or computer. You no longer need to go outside to read your meter or water usage. The intelligent alarm system will report on water leakages and excessive usage of water. The unit also features tamper warnings and reporting of dry conditions where no pulse was received within a certain period.

Post-paid Valve Controller SVC0600

Product Overview

The Flecto Post-paid valve controller will seamlessly integrate with the existing infrastructure where you have Kamstrup MC21 water meters and FSCs. This product enables you to close and open the valve from the backend via the FSC.



Main features

The base-line unit can be operated remotely and set to be open for a period or indefinitely. The luxury-line unit can be integrated with water meters and act as a controller for events like bursts and leaks. The unit features our standard Li-Ion battery for extremely long battery life and packaged in an IP68 plastic enclosure.

Feature technology

Wireless communication bridging the gap between Controller units and reporting units. Alarms and Warnings get transmitted to the FSC. Facilitates closing the valve via the back end, a smartphone or computer.

Details

Offering a whole range of solutions from the basic unit that can control your irrigation on-off to the most advanced luxury-line unit for post payment AMI with integral warnings. These units cover everything. Your solution just got a whole lot smarter.

Flecto Sense Product Selection

The Flecto Sense range of products will make your life easier, just select from the table below to maximize your feature criteria and offer the best solutions for you and your customers

	On-Cloud Data	For Pulse Meters	Prepaid	Postpaid	Digital Water	Electricity
Flecto Sense FSC*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Flecto Sense PCCT**	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flecto Sence SVC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flecto Sense CIU	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kamstrup MC21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kamstrup FlowIQ21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kamstrup FlowIQ31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kamstrup Multical 21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kamstrup Multical 403	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kamstrup Multical 603	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Flecto Sense FSR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Kamstrup Pressure Sensor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kamstrup WMBus Repeater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure Sensor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kamstrup OMNIA Electricity meter sensor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

* Kamstrup meters cannot receive data.

** Some limitations on certain reticulation networks.

Need more guidance?

Get in touch



+27 813 063 059



www.flecto.co.za



084 499 9225



269 Annette van Zyl, Garsfontein,
Pretoria, South Africa