

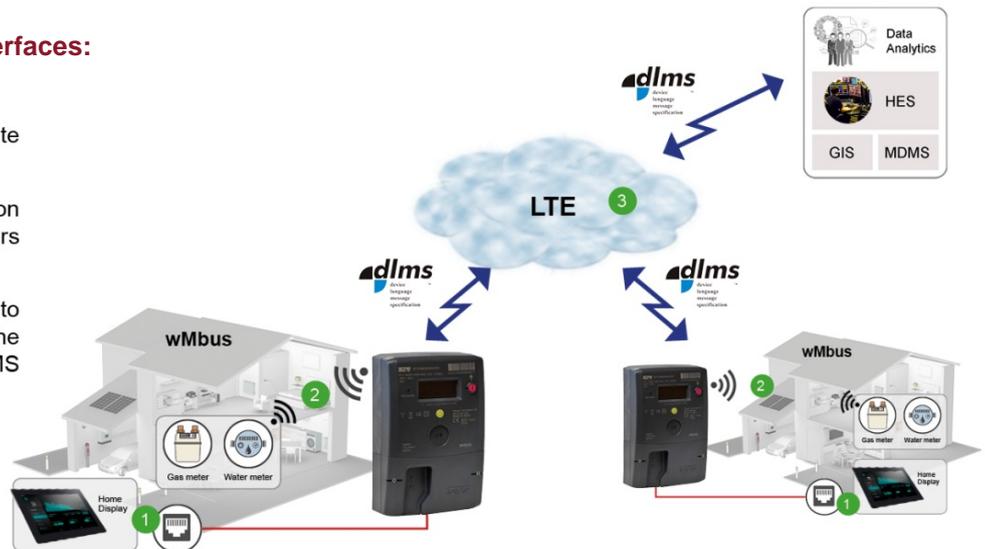
# 5CTA

## Single Phase & Three Phase ESMR5 Meters



- ✓ Robust automated meter reading (AMR) solution for DNOs
- ✓ Energy measurement, load profile and Time of Use (TOU) features
- ✓ Multiple communication interfaces:

- 1 An interface to communicate with the customer (wireline)
- 2 wireless M-Bus communication to gather data from other meters (water, heat or gas meters)
- 3 LTE telecommunications to share information with the central system using the DLMS protocol



### A flexible smart metering platform with LTE cellular technology.

Once the smart meter model is selected, a set of configurable parameters makes the

5CTA meter the solution for a wide variety of situations. Along with ZIV's meter management software, the user can configure the meter: events, TOU, synchronization schema, and many more. 5CTA smart meter can be operated using DLMS/COSEM application data. This implementation is adapted to different data model depending on the interface.

## Main applications

- Instantaneous measurement of voltage, current and power factor per phase, as well as instantaneous network frequency.
- Provide meter present reads (electric and non-electric data) to other service modules through P1 interface.
- Load profile recording including not only electrical energies, but also non-electrical measurements (e.g m3 gas).
- Versatile Time of Use (TOU) module with up to 4 seasons, 4 weekly profiles, 4 types of days and 2 tariff rates.
- Remote communication through P3 interface.
- Time synchronization.
- Event recording. Event and alarm recording with broad set of manageable events.
- Power Quality recording. Voltage variations outside the established thresholds and long term voltage interruptions.
- Self-diagnosis and monitoring.

## Equipment interfaces

- P3 interface for remote reading. LTE module.
- P2 interface for communication with non-electrical meters. Wireless M-BUS module.
- P1 interface for communication with OSM (Other Service Module), wired interface with a RJ12 connector.
- P0 interface. Service and Maintenance optical port.
- HMI for local reading and LEDs for status indication and accuracy testing.

## Technical Information

	Three Phase	Single Phase
<b>Active Energy accuracy</b>	Class B (EN 50470-3)	
<b>Verification Test constant</b>	1000 pulses / kWh	
<b>Current reference value</b>	3 x 5 A	5 A
<b>Starting current</b>	10 mA	
<b>Maximum current</b>	100 A	80 A
<b>Power absorbed by the current circuit (Iref)</b>	< 0,1 VA	
<b>Voltage rated values</b>	3 x 230 V	230 V
<b>Consumption</b>	<10 VA (*)	
<b>Specified operating range</b>	-25°C to +55 °C	
<b>Optical port</b>	According to IEC 62056-21	
<b>P1 port</b>	2 wires / RJ12 connector	
<b>P2 port</b>	Built-in Wireless M-BUS module	
<b>P3 port</b>	Built-in LTE module. KAT1	
<b>Dimensions (mm)</b>	165 x 250 x 71.5	134 x 209 x 49

