

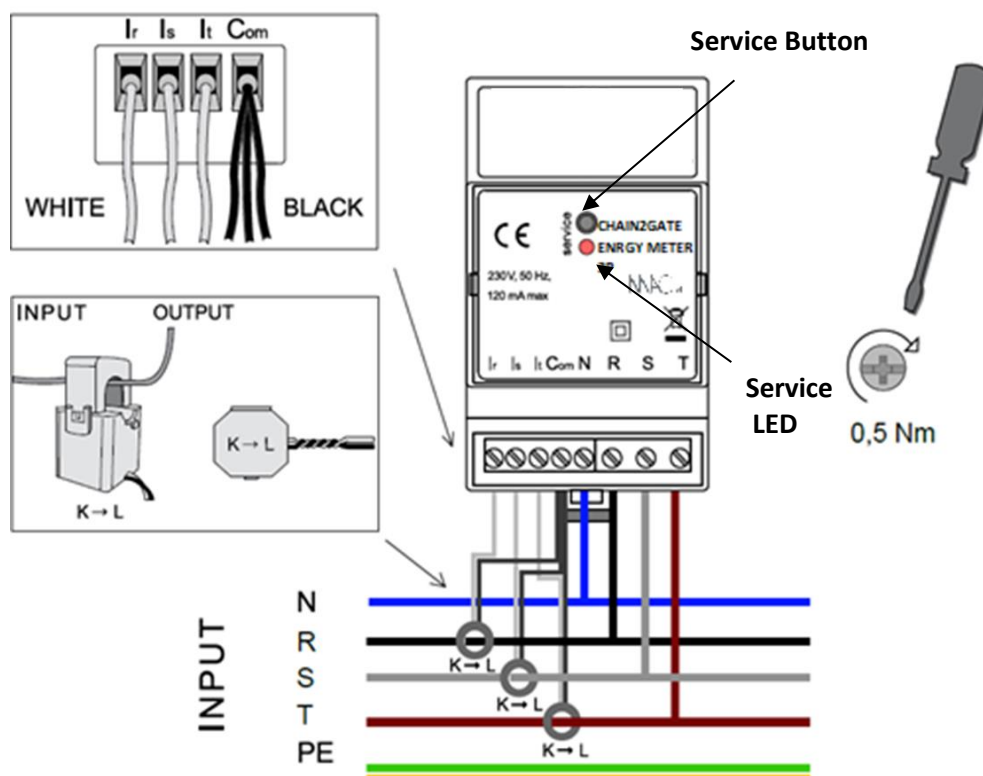
	<h2>CHAIN2GATE ENERGY METER 3P</h2>	<p>04/04/2022 Rel.1.6</p>
<p>GENERAL INFO</p>	<p>Size: 53.5 mm (L) x 90.5 mm (H) x 62 mm (D) (3 DIN Modules) Weight: almost 150g Protection grade: IP20 Flammability: UL94-V0 Case: PC/ABS</p>	
<p>OPERATING CONDITION</p>	<p>INDOOR Operating Temperature: -20°C ÷ +50°C Storage Temperature: -30°C ÷ +70°C Humidity Percentage: 5% ÷ 95% Altitude: ≤ 2000 m Over voltage category: II Pollution Degree: 2 Insulation Class: II </p>	
<p>POWER SUPPLY</p>	<p>Voltage: 230 Vac single phase Operating voltage range: -20%/+15% of the nominal voltage Frequency: 50 Hz Consumption: 120 mA max Protections: Integrated fuse (F1: T1A 300V)</p>	
<p>USER INTERFACE</p>	<p>LED: status visual indicator (red and green) BUTTON: Starting Configuration and reset</p>	
<p>CONNECTION</p>	<p>Connectors: 8 Poles terminal block Wiring Size (min – max): 0.5 ÷ 2.5 mm<sup>2</sup>/ 22AWG ÷ 14AWG</p>	
<p>SHORT RANGE CONNECTIVITY</p>	<p>Wi-Fi: 802.11 b/g/n (802.11n up to 150 Mbps) IoT Protocols: MQTT, WebSocket, REST Security: HTTPS/SSL/TLS Bluetooth: Bluetooth v4.2 BR/EDR and BLE specification Antenna: integrated Frequency: 2.4 GHz</p>	
<p>CHAIN2 CONNECTIVITY</p>	<p>Modem C-Band, B-PSK Modulation Application: DLMS/COSEM IEC (IEC 62056-5-3), Data Model: COSEM Data Model (IEC 62056-6-1, IEC 62056-6-2) Compliant with Italian Standard Chain2full: TS CEI 13-82:2020-04, TS CEI 13-83:2020-04, TS CEI 13-84:2020-04</p>	
<p>ENERGY METER</p>	<p>Minimum Current: 100mA Reference Current: 5 A Nominal rating: 45.5 A; for Power contract up to 10 KW Maximum range (only for short periods) 60 A; up to 13.8 KW Accuracy: class I (±1%) for Active Energy Measurement Category: CAT II according to EN 61010-2-030 Measurements: Voltage rms • Current rms • Active power</p>	
<p>CERTIFICATIONS</p>	<p>CE Marking RED Directive 2014/53/UE</p> <ul style="list-style-type: none"> <li>• Art. 3.1(a) – Safety_ EN 61010-1/A1, EN 61010-2-30,</li> <li>• Art. 3.1(a) – Health EN 62311</li> <li>• Art. 3.1(b) – EMC: EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12, ETSI EN 301 489-1, ETSI EN 301 489-17</li> <li>• Art 3.2 – Radio: ETSI EN 300 328</li> </ul>	
<p>APPLICATION SW</p>	<p>The Chain2Gate family of devices is based on the <b>JCD Peer to Peer IOT Protocol Architecture</b>. JCD is a message-oriented architecture in Json format for Peer To Peer communication on local and Cloud networks based on MQTT or WebSocket transport. The JCD architecture is also supported by the <b>UCD Universal Cloud Downloader (Update</b></p>	

# CHAIN2GATE

ENERGY AWARE

	<p><b>FOTA</b>) technology. UCD is a Cloud Architecture for the notification and distribution of new release files or software modules. The Universal Cloud Downloader service allows the firmware update of the devices remotely through a Cloud connection even if installed and operational in the field.</p> <p>The architecture supports forwarding the <b>Cloud Certificates Upgrade for downloading certificates</b>. The connection configuration to the MQTT broker is activated in a secure and authenticated way by exploiting the use of Server and Client certificates, as also required by the AWS IOT platform.</p>
MANUFACTURER	<p>Product distributed by MAC srl, Via XX Settembre, 23 62019 Recanati (MC) – Italy</p>

## CONNECTION SCHEME



The TA accepts a cable with a maximum diameter of 10mm, which typically corresponds to a section up to 16mm²

Vac Main between N and T. The same line is used for Voltage Measure

The Chain2 Communication is available between T and N

