

Tender text – Compleo CITO 240

General information	<ul style="list-style-type: none"> • Charging station for charging electric vehicles according to IEC 61851-1 Mode 3 & Mode 4 • Charging in (semi)-public areas • One, two or three charging points • One CCS charging point (DC) with attached charging cable (3m), optionally one CHAdeMO charging cable (DC), optionally one type 2 socket (AC) with interlock according to IEC 62196 • Execution of a DC and an AC charging process in parallel • DC & AC: billing of charging time and/or charging power in compliance with calibration regulations • DC & AC: guaranteed readability of charging data • Integrated, MID-compliant smart meters • CE certification • Conformity with EU directives RoHS and REACH • Can be customised by painting and foiling the housing • Made in Germany at production sites in Dortmund
Mechanical data	<ul style="list-style-type: none"> • Mounting on the ground on a solid base or on a concrete pedestal • Weight with full equipment maximum 160 kg • Compact design with low depth (H x W x D: 1608 x 721 x 341 mm) • Protection class of housing min. IP44 • Protection class of relevant components min. IP54 • Protection class (mechanical impact resistance) min. IK10 • Weatherproof, corrosion-resistant stainless steel enclosure • Lockable door for front maintenance access • Theft protection through use of operator's own profile half-cylinder • Cable management system optional (6.2 m charging cable length)
Electrical data	<ul style="list-style-type: none"> • 3-phase connection to the local mains supply with 400 V, 50 Hz • Configurable input current up to 80 A • Max. 24 kW charging power DC, 150 - 500 V, 65 A • Max. 22 kW charging capacity AC, 400 V, 32 A • Supply cable cross-section up to max. 50 mm² • Efficiency > 94 % at 65 A and 400 V DC
Protective devices	<ul style="list-style-type: none"> • Integrated RCD per charging point, type A, 30 mA • Integrated 6 mA DC fault current detection per charging point, alternatively 2x RCDs type B • Integrated circuit breaker (MCB) C50 (DC) • Integrated 3-pole circuit breaker (AC) • Integrated welding detection for each charging point • Ensures unbalanced load conformity for single-phase charging vehicles • Overvoltage protection type 2+3 or type 1+2+3 according to DIN EN 61643-11, all-pole, integrated • Highest safety through insulation monitoring • Contact protection class of the electrical components with open housing IPxxB
Connectivity	<ul style="list-style-type: none"> • Use of the OCPP 1.6 JSON communication protocol, integration of the charging station in all compatible back-ends possible • Integrated LTE modem, Ethernet interface • Integrated NFC reader (ISO 14443 A/B, ISO 18092, ECMA-340, ISO 15693) • Integrated charging station controller with high computing power • Intelligent load management with static upper limit possible without additional hardware

	<ul style="list-style-type: none"> • External dynamic power setting possible, e.g. via Modbus TCP, to include building load and PV feed-in • Integration into an existing energy management system possible, e.g. via Modbus TCP
Installation	<ul style="list-style-type: none"> • Ready-to-connect installation of the charging infrastructure • Individually tested safety protection technology • Installation of the charging pole possible with the help of a crane • Lockable front access to the safety components and to the integrated control for maintenance and troubleshooting purposes • Setup and parameterization via internal Ethernet interface • Factory preconfigured backend connection • Operating instructions included • Storage temperature between -25°C and +80°C
Operation	<ul style="list-style-type: none"> • Operating temperature between -25°C and +40°C • If necessary, reduce the charging current or switch off to avoid overheating (derating) • Use at an altitude of up to 2,000 m above sea level
Authentication	<ul style="list-style-type: none"> • Authorization of the charging process via RFID, remote or, if necessary, without authentication • Optional authentication via Giro-e
UI/UX	<ul style="list-style-type: none"> • At least 4.3" display incl. indication of charging power or similar • LED status display provides information on readiness, charging process and errors • Near-field lighting • Graphic operating instructions on user interface