Compleo Duo IMS tender text

General	Charging station with two charging points for charging electric vehicles according to IEC 61851-1 Mode 3 in public areas with up to 22 kW per charging point. The charging station is equipped with two type 2 charging sockets with interlock according to IEC 62196. The charging station can be connected directly to all low-voltage networks without sub-distribution. There is sufficient space for a meter for the grid operator. Ideally, the charging station fully complies with VDE-AR-N 4100. Conformity with calibration laws is guaranteed locally and independently of the backend. The operator is not required to store data. Meter values can be read directly at the charging station. Both kWh and charging time can be billed in accordance with calibration law. The charging station is CE, RoHs and REACH compliant.
Mechanical Data	Floor mounting possible. Prefabricated base optionally available. Weight with full equipment maximum 77 kg. Weatherproof, modular, corrosion-resistant housing to IP44 with mechanical impact resistance IK10. Relevant components protected to IP54. Painted housing that can be individually foiled.
Electrical Data	3-phase connection to the local power grid with 400 V, configurable input current with up to 63 A, 50 Hz, for a maximum charging power of up to 22 kW per charging point. Supply line cross-section 10 - 95 mm². RCD, type A, 30 mA together with 6 mA DC fault current detection integrated, alternatively RCD type B. Welding detection (charging socket does not carry current when charging contact is welded) integrated per charging point. Shifted load conformity guaranteed for 1-phase charging vehicles. 3-pole circuit breaker integrated for each charging point. 1-pole circuit breaker for control components integrated. Overvoltage protection type 1+2+3 according to DIN EN 61643-11, all-pole, can be integrated into the charging station, then overvoltage category II, otherwise overvoltage category III. The essential components to comply with VDE-AR-N 4100 are integrated: House connection box for NH00 fuses, mains-side connection compartment for supplying the room for additional applications (RfZ) and termination point meter location (APZ), meter field for up to two electronic household meters (eHZ) or installation of a 3-point meter for the network operator, Ethernet line from RfZ into APZ, contact for fulfilling disconnectability, system-side connection compartment, APZ. The electrical components are provided with contact protection (IPxxB) when the housing is open. MID-compliant smart meter integrated.
Connectivity	The charging station supports OCPP 1.6 JSON and can be integrated into all backends compatible with it. Integrated LTE modem, Ethernet connection. Credit card terminal with pinpad, compliant with current charging station regulation integrated. Charging station controller with high computing power integrated, suitable for technological advancement on software level (for example with embedded Linux). The charging station can be integrated into an intelligent load management system. For example, power can be limited as specified by an energy management system. Communication e.g. via Modbus.
Packaging	Operating instructions enclosed at least on suitable data carrier. Storage temperature between -25°C and +50°C.
Installation	The charging infrastructure must be assembled ready for connection and individually tested with the safety protection technology. The complete charging pole must be able to be installed by two people without a crane. Lockable door accessible from the front for easy access to the integrated controller, safety

	components for maintenance and troubleshooting. Dual locking with one operator and one network operator profile half-cylinder. Setup and parameterization via internal Ethernet interface.
Operation	Operating temperature between -25°C and +40°C. LED status indicator and display inform about readiness, charging process and errors. A charging process can be activated via RFID, credit card, giro card, remote or, if necessary, without authentication.