Modbus Register Mapping

The registers that can be read depend on the device you are communicating with.

Discovery Feature

The product responds to the Modbus function code FC43-14 with the following values:

- The `VendorName` = `Schneider Electric`
- The `ProductCode` = `EBX`510
- The `ProductName` = Com'X 510
- The `MajorMinorRevision` = the Com'X 510 version.

Com'X Register Mapping

The following values can be read only through Modbus function codes FC03-FC04.

Legacy registers from previous firmware versions are still supported.

Address	Register	Object	Size (Word)	Format	Unit	Comments
1199	1200	D1 Label	20	UTF-8	UTF-8	
1219	1220	D2 Label	20	UTF-8	UTF-8	
1239	1240	D3 Label	20	UTF-8	UTF-8	
1259	1260	D4 Label	20	UTF-8	UTF-8	
1279	1280	D5 Label	20	UTF-8	UTF-8	
1299	1300	D6 Label	20	UTF-8	UTF-8	
1319	1320	Reserved	12	–	–	
1331	1332	D1 Pulse Weight	2	FLOAT32	–	
1333	1334	D2 Pulse Weight	2	FLOAT32	–	
1335	1336	D3 Pulse Weight	2	FLOAT32	–	
1337	1338	D4 Pulse Weight	2	FLOAT32	–	
1339	1340	D5 Pulse Weight	2	FLOAT32	–	
1341	1342	D6 Pulse Weight	2	FLOAT32	–	
1343	1344	D1 On Time	2	INT32U	sec	See note 4.
1345	1346	D2 On Time	2	INT32U	sec	See note 4.
1347	1348	D3 On Time	2	INT32U	sec	See note 4.
1349	1350	D4 On Time	2	INT32U	sec	See note 4.
1351	1352	D5 On Time	2	INT32U	sec	See note 4.
1353	1354	D6 On Time	2	INT32U	sec	See note 4.
1355	1356	D1 Pulse Count	2	INT32U	–	See note 3.
1357	1358	D2 Pulse Count	2	INT32U	–	See note 3.
1359	1360	D3 Pulse Count	2	INT32U	–	See note 3.
1361	1362	D4 Pulse Count	2	INT32U	–	See note 3.
1363	1364	D5 Pulse Count	2	INT32U	–	See note 3.
1365	1366	D6 Pulse Count	2	INT32U	–	See note 3.
1367	1368	D1 Measured Value	4	INT64	–	See note 3.
1371	1372	D2 Measured Value	4	INT64	–	See note 3.
1375	1376	D3 Measured Value	4	INT64	–	See note 3.

Address	Register	Object	Size (Word)	Format	Unit	Comments
1379	1380	D4 Measured Value	4	INT64	–	See note 3.
1383	1384	D5 Measured Value	4	INT64	–	See note 3.
1387	1388	D6 Measured Value	4	INT64	–	See note 3.
1391	1392	D1 Measured Flow	2	FLOAT32	–	See note 3.
1393	1394	D2 Measured Flow	2	FLOAT32	–	See note 3.
1395	1396	D3 Measured Flow	2	FLOAT32	–	See note 3.
1397	1398	D4 Measured Flow	2	FLOAT32	–	See note 3.
1399	1400	D5 Measured Flow	2	FLOAT32	–	See note 3.
1401	1402	D6 Measured Flow	2	FLOAT32	–	See note 3.
1403	1404	Reserved	96	UINT16	–	
1499	1500	A1 Normalized Value	2	FLOAT32	–	See note 5.
1501	1502	A2 Normalized Value	2	FLOAT32	–	See note 5.
1503	1504	A1 Scaled Value	2	FLOAT32	–	
1505	1506	A2 Scaled Value	2	FLOAT32	–	
1507	1508	A1 Label	20	UTF-8	UTF-8	
1527	1528	A2 Label	20	UTF-8	UTF-8	
1547	1548	Reserved	852	INT16		
2399	2400	Digital Input Validity - Bit 0..5	1	Bitmap	–	See note 1. Can be read with Modbus code FC01 (coil 38400 - 38405).
2400	2401	Digital Input - Bit 0..5	1	Bitmap	–	See note 2. Can be read with Modbus code FC01 (coil 38416 - 38421).

1. One bit is set for each digital input (DI) used in the Com'X 510.
2. One bit is set for each digital input configured as a contactor or an impulse relay, if this device is closed.
3. This value is valid only if the digital input is configured as a pulse meter
4. This value is valid only if the digital input is configured as a contactor or an impulse relay
5. If the sensor connected to the analog input (AI)
   - is a 0-10V sensor, the raw value is the voltage value [0–10V].
   - is a 4-20mA sensor, the raw value is the current value [4–0.020A].

EM4300 Register Mapping

The following values can be read only through Modbus function codes FC03-FC04.

EM4300	EM4399	Address	Register	Description	Size	Data Type	Units	Update Frequency
X	X	1	2	Product Identifier (17150)	1	INT16U	–	<< 1 Minute
		2	3	Reserved	1998	–	–	–
X	X	2000	2001	Frequency	2	FLOAT32	Hz	1 Minute
X		2002	2003	Power Factor A	2	FLOAT32	–	1 Minute
X		2004	2005	Power Factor B	2	FLOAT32	–	1 Minute
X		2006	2007	Power Factor C	2	FLOAT32	–	1 Minute
X	X	2008	2009	Apparent Power A	2	FLOAT32	VA	1 Minute
X	X	2010	2011	Apparent Power B	2	FLOAT32	VA	1 Minute
X	X	2012	2013	Apparent Power C	2	FLOAT32	VA	1 Minute