

Serial MODBUS & MODBUS/TCP performances over the WiFi radio network

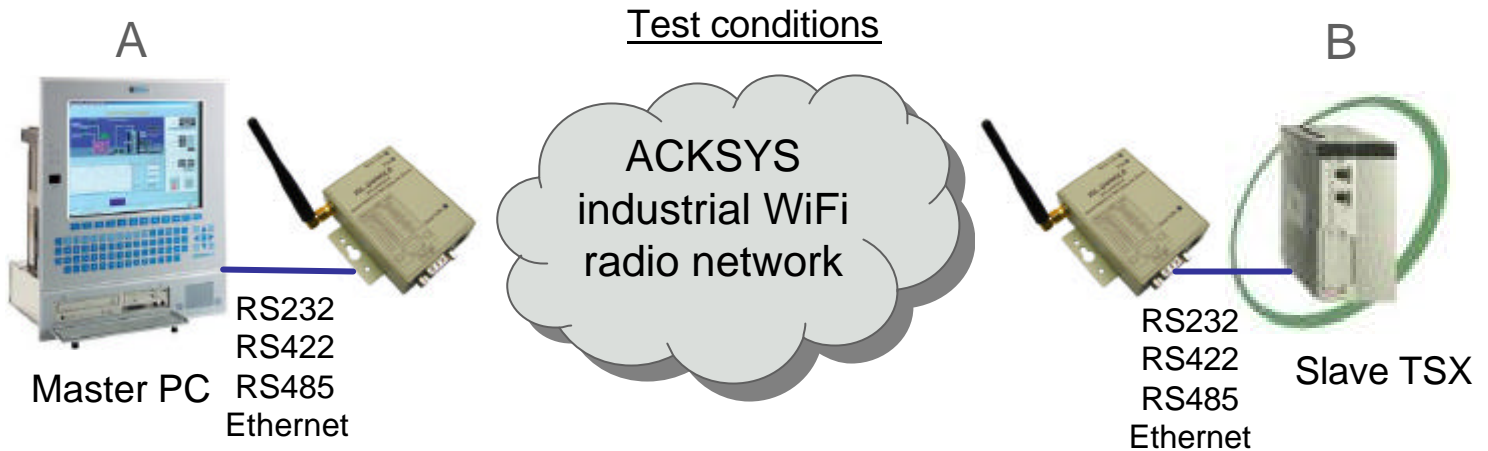
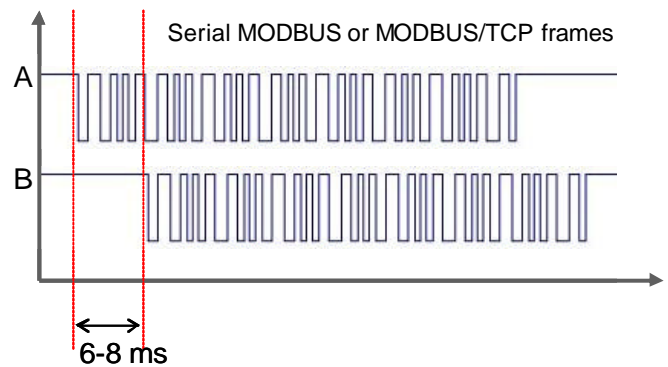


Table of results

| Protocol | Serial MODBUS | MODBUS/TCP |
|---------------------------------------|------------------------|----------------------|
| Recommended product | WL-COMETH WL-DONGLE | WL-ACCESS WL-LINK |
| Number of transactions (1) per second | 1.020 (2) | 22.330 (3) |
| Latency (4) | 6 to 8 ms | 6 to 8 ms |



Note 1 : In this example, « transaction » means the reading or the writing of one register of the PLC, answer frame included.

Note 2 : This value is calculated for 11 bytes serial MODBUS frames and for a communication speed of 115.200 bps.

Note 3 : This value is calculated for 23 bytes MODBUS/TCP frames.

Note 4 : Latency is the time measured between the departure point (A) of the frame and its arrival at point (B) (see chronogram above).

Note 5 : Given performance values rely on a PLC response time to the read or write request equal to 20 ms, we also consider that radio receive conditions are optimal.