

Global Modbus Address Table

Modbus Address

Description	Address ⁽¹⁾	No. of Words	Type	RW
System				
Identification	100	11	ASCII	R
Status	112	1	BITMAP	R
Date and Time	115	4	DATE	RW

⁽¹⁾ Modbus register = Modbus address + 1.

Modbus Address for Wireless Devices

Acti 9 Smartlink SI D allocates dynamically, a slave number 150 through 169 for each of the 20 wireless devices (up to 20 wireless devices) that could be connected to the Acti 9 Smartlink SI D.

Each of these 20 devices has exactly the same Modbus register table (same structure, same addresses) as described in the following table.

The supervision system uses the dynamically allocated slave number (of each wireless device) to pull the right Modbus register table.

Description	Unit	Address ⁽¹⁾	No. of Words	Type	RW
Current measurement					
Current on phase A	A	2999	2	Float32	R
Current on phase B	A	3001	2	Float32	R
Current on phase C	A	3003	2	Float32	R
Voltage measurement					
Phase-to-phase voltage A-B	V	3019	2	Float32	R
Phase-to-phase voltage B-C	V	3021	2	Float32	R
Phase-to-phase voltage C-A	V	3023	2	Float32	R
Phase-to-neutral voltage A-N	V	3027	2	Float32	R
Phase-to-neutral voltage B-N	V	3029	2	Float32	R
Phase-to-neutral voltage C-N	V	3031	2	Float32	R
Power measurement					
Active power on phase A	W	3053	2	Float32	R
Active power on phase B	W	3055	2	Float32	R
Active power on phase C	W	3057	2	Float32	R
Total active power	W	3069	2	Float32	R
Power factor measurement	W	3083	2	Float32	R
Energy measurement					
Total active energy delivered and received	Wh	3203	4	INT64	R
Sum of partial energy set and accumulated active energy from the set delivered by PowerTag energy sensors	Wh	3255	4	INT64	R
Reset partial energy counter	Wh	3259	4	INT64	W
Circuit diagnostic counters					
Validity of each bit of register	–	3297	2	UINT	R
Alarm status	–	3299	2	UINT	R
Product Identification					
User application name	–	31000	10	ASCII	RW
Circuit identifier	–	31010	3	ASCII	RW
Usage attribute	–	31013	1	ENUM	RW
Phase sequence	–	31014	1	ENUM	RW

Description	Unit	Address ⁽¹⁾	No. of Words	Type	RW
Mounting position	–	31015	1	ENUM	RW
Circuit diagnostic	–	31016	1	ENUM	RW
Breaker rating	A	31017	1	UINT	RW
Product type	–	31024	1	ENUM	R

⁽¹⁾ Modbus register = Modbus address + 1.

How to use registers

To know the description of each register (how to use them), please print the excel report of Modbus registers using Acti 9 Smart test software. It gives you a dynamic knowledge of all your registers necessary to integrate to building management systems including a description of each register.

Modbus Address

The list of Modbus addresses, defined by the Modbus protocol, starts at 0. The detailed tables in subsequent chapters of this manual give the Modbus addresses.

If the programmable controller (Modbus master) refers to the data model addresses, the addresses to be supplied to this controller must meet the following rule: Data model address = Modbus address + 1.

If the programmable controller (Modbus master) refers to the protocol addresses, the addresses to be supplied to this controller must be the Modbus addresses.