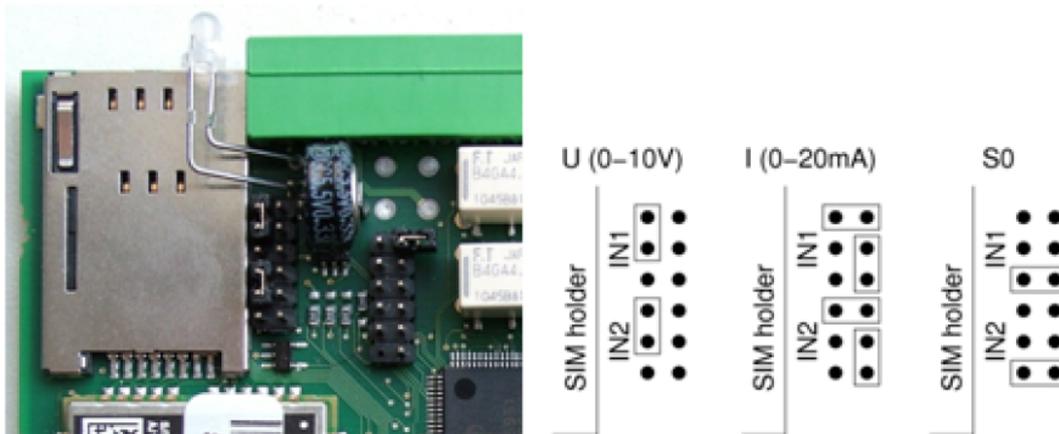


# How to connect meter with pulse output (S0) to 2N® SmartCOM PRO ETH?

tested with meter supporting pulse output (S0) and 2N® SmartCOM PRO ETH with firmware SCE\_1.12.0.12.24 supporting AMS features.

Make sure that the 2N® SmartCOM PRO ETH jumpers are set as shown in figure



## ■ pulse counting on S0 inputs

<code>at^scpulse1="start"</code>	- enable pulse counting on input 1.
<code>at^scams="ENABLE",1</code>	- enable AMS functionality.
<code>AT^SCAMS="DEV_ADD",128,"AIN_DIN","1/PULSE/ABS","5M"</code> minutes	- absolute value of pulses on input 1 each 5 minutes
<code>at^scpulse2="start"</code>	- enable pulse counting on input 2.
<code>AT^SCAMS="DEV_ADD",128,"AIN_DIN","2/PULSE/REL","5M"</code> value of pulses on input 2 each 5 minutes	- relative (difference between two readouts)
Possible time intervals: "12M", "15M", "20M", "30M", "1H", "2H", "3H", "4H", "6H", "8H", "12H", "1D"	- "1M", "2M", "3M", "4M", "5M", "6M", "10M", "12M", "15M", "20M", "30M", "1H", "2H", "3H", "4H", "6H", "8H", "12H", "1D"
<code>at^scams?</code>	- Show added devices
<code>^SCAMS: 1&gt; 128,"AIN_DIN","1/PULSE/ABS","5M"</code>	
<code>^SCAMS: 2&gt; 128,"AIN_DIN","2/PULSE/REL","5M"</code>	
<code>AT^SCAMS="DEV_REMOVE",1</code>	- Remove device from defined position

## ■ results

<code>at^scdata="get_oldest",50</code>	
<code>^SCDATA: "AMS",1461340261,12091,"AIN_DIN",1,0,"", "131"</code>	- results from port 1
<code>^SCDATA: "AMS",1461340381,12093,"AIN_DIN",1,0,"", "228"</code>	- results from port 1
<code>^SCDATA: "AMS",1461340441,12094,"AIN_DIN",1,0,"", "234"</code>	- results from port 1
<code>^SCDATA: "AMS",1461340681,12098,"AIN_DIN",2,0,"", "21"</code>	- results from port 2

General AMS errors	
0	- without error
1	- error of input data
2	- error of output data
3	- protocol cannot be used for this port
4	- readout not started

Inputs AMS errors	
8388608	- non specific error (internal error of module)
8388609	- readout was stopped by user
8388610	- bad format address of the device
8388611	- timeout (message was not sent in defined time)
8388612	- timeout (message was not sent in defined time)
8388613	- timeout - receiving message response
8388865	- bad frame in answer message
8388866	- bad sequential number of the frame
8388867	- answer is too long (not enough space for this frame in internal AMS memory)
8388868	- bad CRC
8388869	- bad value in sync. field

More product information:

2N® SmartCom (Official Website 2N)

2N® SmartCom PRO (Official Website 2N)