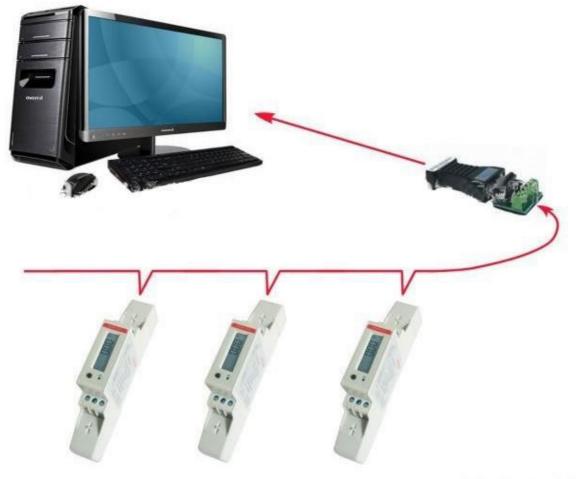
## Modbus connection of IndigoSCADA with SDM120

SDM120 is a single phase modbus energy meter.

SDM120 are connected to the PC by means of a RS485 daisy-chain network with up to 32 modules. USB to RS485 adapter is necessary.



Configure IndigoSCADA with a new modbus RTU unit with the following modbus database: Taking the register address minus 30001 : so for Total Kwh. 30343 minus 30001 = offset address is 342

slave_id	modbus_function_read	modbus_function_write	modbus_address	modbus_type	ioa_control_center	deadband	Address Register
1	1	3	16	0 VT_l2		1	0
1	1	3	16	1 VT_l2	:	2	0
2	2	4	0	0 VT_R4SWAP	:	3	0 30001 Voltage Volts
2	2	4	0	6 VT_R4SWAP		4	0 30007 Current Amps
2	2	4	0	12 VT_R4SWAP	:	5	0 30013 Active power Watts
2	2	4	0	70 VT_R4SWAP		6	0 30071 Frequency Hz
2	2	4	0 34	42 VT_R4SWAP		7	0 30343 Total active energy kWh

## The HMI looks like this:

الله المعالمة المعالم										
<u>File Reports Configure System Control Help</u>										
🖻 😰 🕑 🖭 💟 🛄	2:5									
<u>A</u> larms <u>S</u> tatus <u>M</u> essages	hmi0.ui hmi1.ui	hmi10.ui	hmi2.ui	hmi3.ui	hmi4.ui	hmi5.ui	hmi6.ui h	imi7.ui	hmi8.ui	hmi9.ui
284 * C Temperatu 546 % Luftfuktighe		rs 2	0.049	Amp		Watt	æ.æ	13   1	:Wt K	Comfyr
		rs 3	<u></u>	Amp		Watt	ىد.ت 18.94			Oppvaskmaskin
			0.051	Amp		Watt	د.ه ۲۵.۳۵			/askemaskin
Hz Frekvens		rs 5		Amp		Watt	נם. רשי קבוע בע			/armtvannsbereder
Volt kurs 2				Amp	ы Б.Ө	Watt	יב.ישב E. <del>J</del> E			(j;kken, Bod, Soverom
Volt kurs 3				Amp	194.9	Watt	60.00			Stue
Zull_4 Volt kurs 4	Ku			Amp	83.6	Watt	124. (		Wt G	Gang, Wc, Vaskerom, Bad
	Ku	rs 9		Amp		Watt	ייי בייים 15.14		Wt S	Stekeovn
	Ku	rs 10	0.041	Amp	15.1	Watt			⟨Wt ⊮	(j;kken
	Ku		0.047	Amp		Watt			(Wt G	Garasje, Loft
	Ku	rs 12		Amp		Watt	4.7		Wt ∖	/armepumpe i stue
	Ku	rs 13	<u>-</u>	Amp	116.5	Watt	29.3		wt ۷	/indfang, Gang og Soverom nede
	Ku			Amp	B2	Watt	0.1		(Wt E	Bad, Bibliotek og 2 stikk i Gang r
	Ku	rs 15		Amp		Watt	8.8			/armepumpe i Garasje
Monitor is Running Active receip	pe: (default) User: (**	*)								

Monitor is Running -- Active receipe: (default) -- User: (\*\*\*)

## 14 SDM120 mounted on din rail:

