

Processing Energy/Water/Gaz/Steam consumption data which is received from external devices by relays pulses.

Setup in EM133 and definitions in ExpertPowerPlus system.

EM133 is equipped with 2 embedded digital inputs.

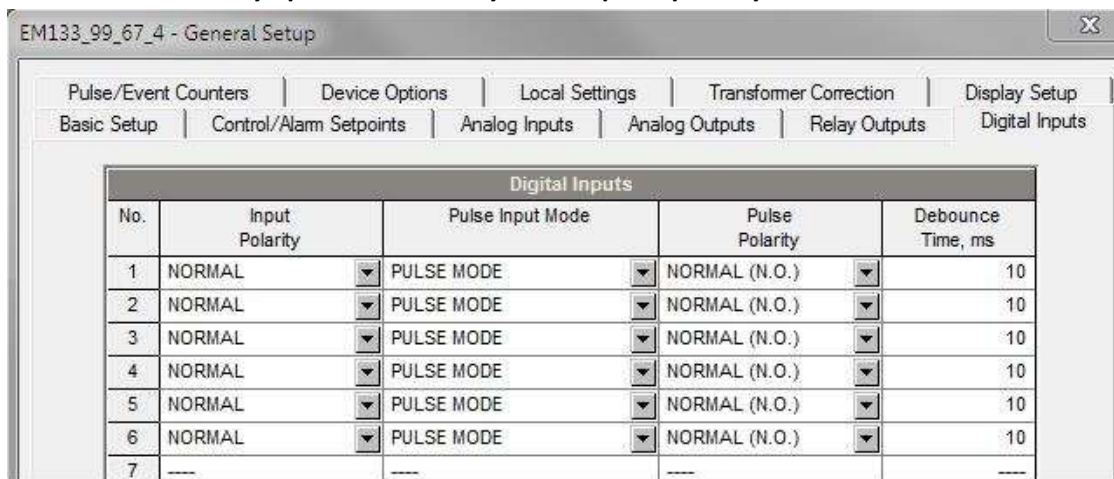
Optionally can be installed either module with 4 DIs or with 12 Dis.

Refer page 6 in SATEC products catalog <http://satec-global.com/sites/default/files/SATEC-Catalog-2017.pdf>

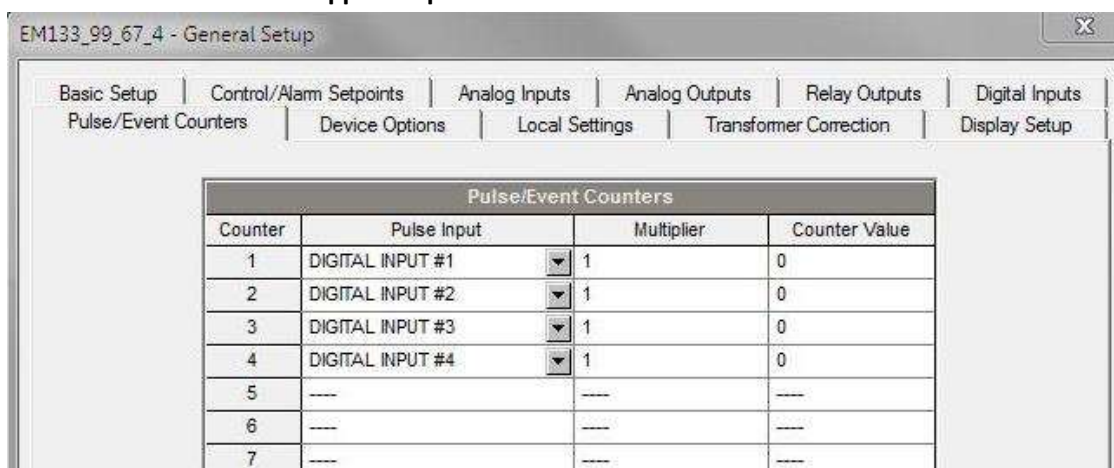
1. Setup in EM133. Use PAS program in define digital inputs setup in EM133.

1.1 Meter Setup->General Setup-> Digital Inputs.

Choose “normally open” or “normally closed” pulse polarity.



1.2 Set counters. EM133 supports up to 4 counters.



2. Definition is ExpertPowerPlus.

2.1 For each used digital input add Pulse device in under appropriate communication device.

ID	Number	Device name	Type	Serial number	Channel	Last Polled
103517	30	EM133R-IP99_67-4	EM133	54321		12/12/2017 13:31:11
103527	155	Pulse demo 1	Pulse			
103521	50	Pulse demo 2	Pulse			
123763	3	Pulse demo 3	Pulse			
123764	9	Pulse demo 4	Pulse			

2.2 Click "Run Now" button to rereading setups from the device

Maintenance || System Setup || Customers List || Comm. Devices List || Devices List || **Features**

Device details	Requests	Memory Setup	User Assigned	Companies	More Options
Customer: Technical Support		Comm Device: ETC II		Device: EM133R-IP99_67-4	
<input checked="" type="checkbox"/> Basic Measurements					
<input checked="" type="checkbox"/> Electricity					
<input checked="" type="checkbox"/> Event Log					
Data Logs					
<input type="checkbox"/> Max Demands					
<input checked="" type="checkbox"/> Setup					
<input checked="" type="checkbox"/> Read and check real time clock		<input checked="" type="checkbox"/> TOU Setup		<input checked="" type="checkbox"/> Device Memory Setup	
<input checked="" type="checkbox"/> Device Setup		<input checked="" type="checkbox"/> Data logs setup		<input checked="" type="checkbox"/> User Assigned Register Map	
<input checked="" type="checkbox"/> Pulse Counter Setup					

2.3 In Memory Setup verify that latest updates already were read into ExpertPowerLus.

Maintenance \ System Setup \ Customers List \ Comm. Devices List \ Devices List \ **Device Setup**

Device details	Requests	Memory Setup	User Assigned	Companies	More Options	
Customer: Technical Suppo... Comm Device: ETC II Cellular... Device: EM133R-IP99_67-4					Show a	
Log	Type	Size, bytes	Num Records	Record Size*	NumParameters	Set Point
Event Log	WRAP-AROUND	3200	200	16	0	
Data Log 1	WRAP-AROUND	103680	4320	24	4	SP(1)
Data Log 16				96	1	

* Record Size = (Nu

Data Log 1

#	Parameter
1	Pulse counter #1
2	Pulse counter #2
3	Pulse counter #3
4	Pulse counter #4

2.4 For EM133 for to page More Options->Pulse Setup and set Source Pulse device for each Digital Input.

Maintenance \ System Setup \ Customers List \ Comm. Devices List \ Devices List \ **Pulse Setup**

Device details	Requests	Memory Setup	User Assigned	Companies	More Options	
Customer: Technical Suppo... Comm Device: ETC II Device: EM133R-IP99_67-4						
Digital Input #	Setup In Device	Source Device	Type Of Processing	Factor	Title	Action
1	Counter #1	Pulse demo 1	Active Energy Import	1		Edit
2	Counter #2	Pulse demo 2	Active Energy Import	1		Edit
3	Counter #3	Pulse demo 3	Active Energy Import	1		Edit
4	Counter #4	Pulse demo 4	Active energy import	1		Submit Cancel

2.5 For each Pulse device. Set Electricity requests

Maintenance \| System Setup \| Customers List \| Comm. Devices List \| Devices List \| **Features**



Device details	Requests	Memory Setup	User Assigned	Companies	More Options
Customer: Technical Support Comm Device: ETC II Device: Pulse demo 1					
<input checked="" type="checkbox"/> Electricity 					
Active energy import					
Total					
Data Log #1 (EM133R-IP99_67-4) <input checked="" type="checkbox"/> Process TOU					
<i>* Setup changes in the device may affect existing requests. Please check this page after any setup change</i>					
<input type="button" value="Save"/>					