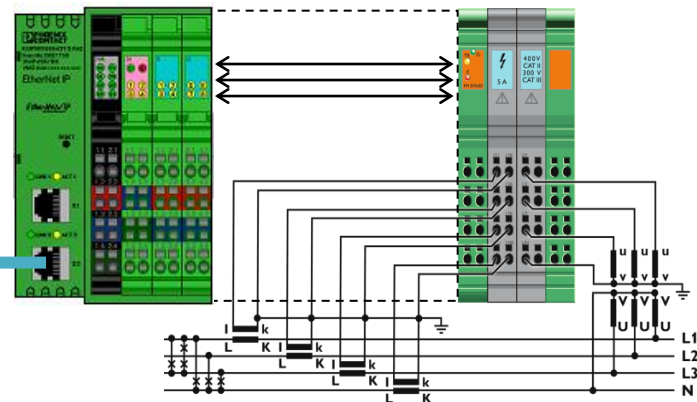


# Guia de Configuração

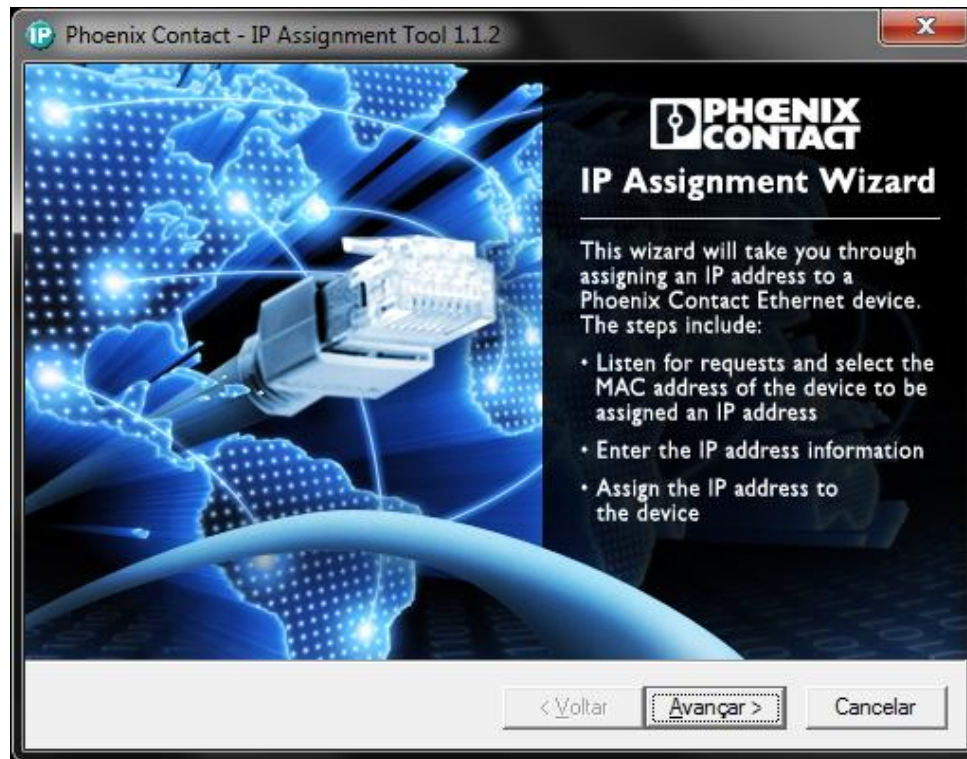
## CLP CompactLogix e Remota Ethernet/IP e Cartão de Medição de Energia



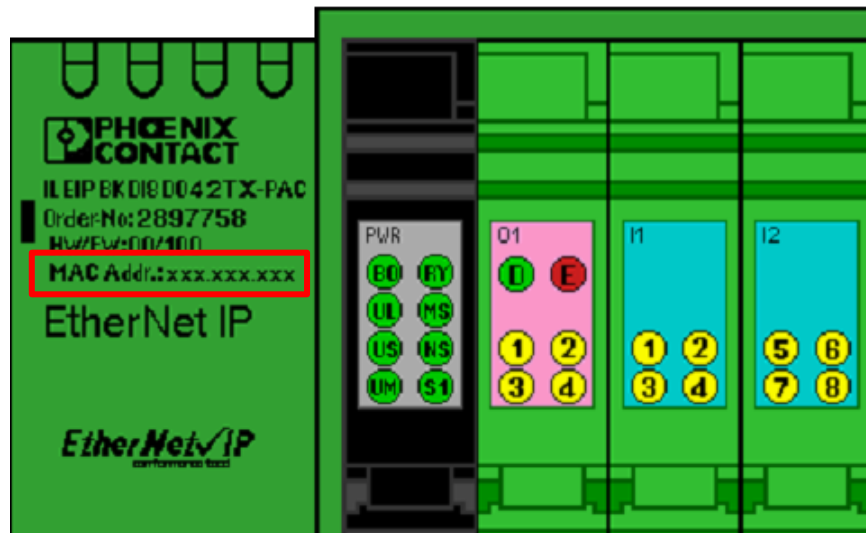
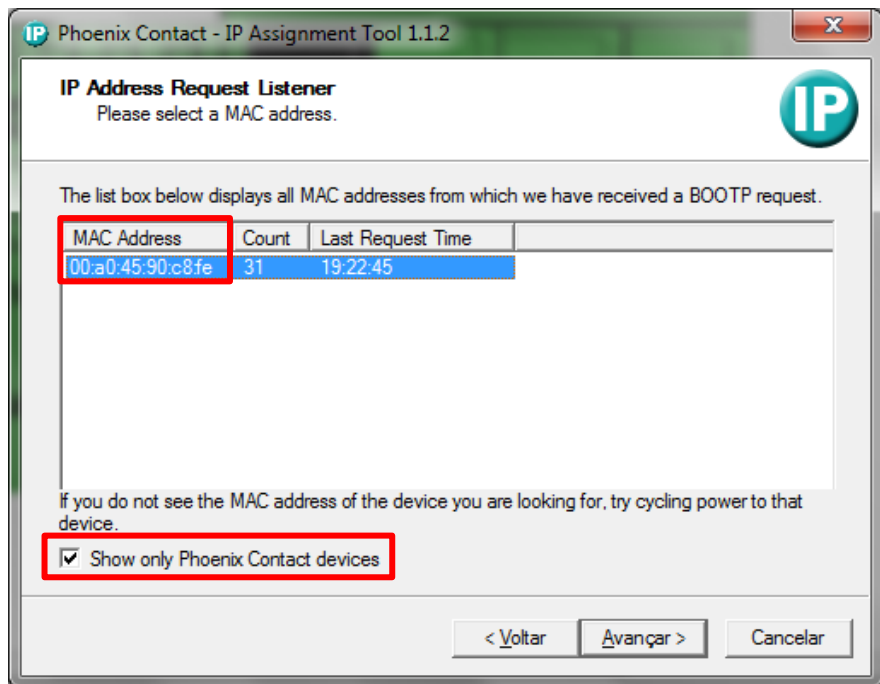
EtherNet/IP®



# Configuração do IP da REMOTA via software IP Assignment Tool



# Configuração do IP da REMOTA via software IP Assignment Tool



# Configuração do IP da REMOTA via software IP Assignment Tool

IP Phoenix Contact - IP Assignment Tool 1.1.2

**Set IP Address**  
Please specify an IP address to use.

This PC's IP address: 192.168.15.5

Please specify the IP address to be used below.

Selected MAC address: 00:a0:45:90:c8:fe

IP address: 192 . 168 . 0 . 3

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 0 . 0 . 0 . 0

WARNING: this address is in a different Subnet.  
Once you have entered a valid IP address, click Next.

< Voltar Avançar > Cancelar

IP Phoenix Contact - IP Assignment Tool 1.1.2

**Congratulations**  
The wizard has assigned the IP address to the device.

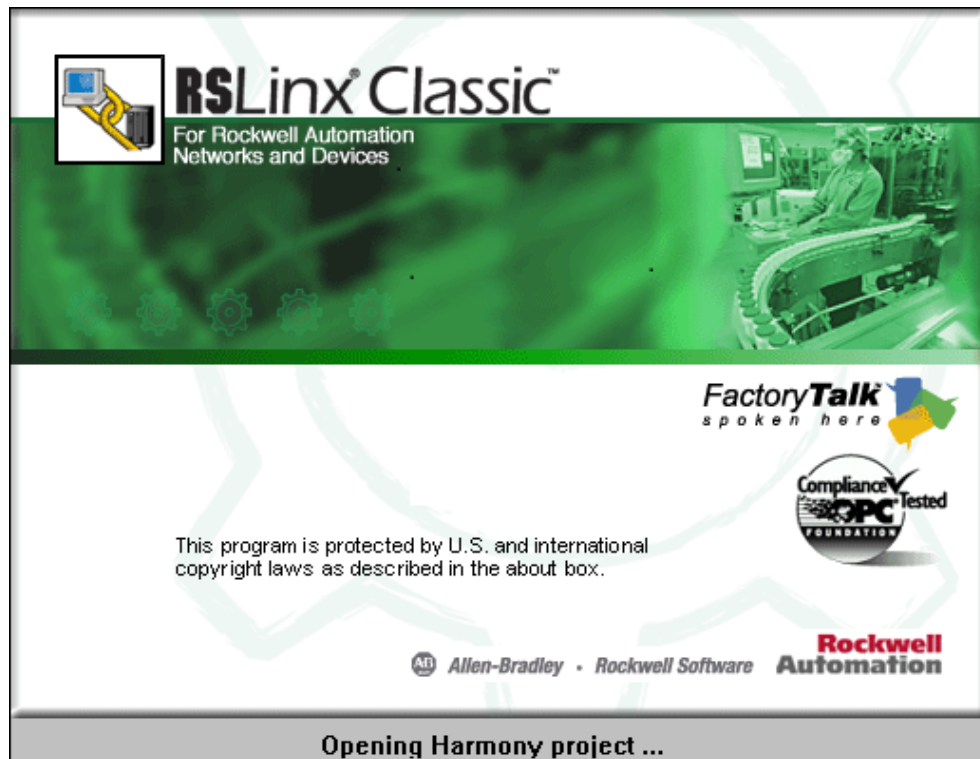
Successfully assigned MAC address:  
00:a0:45:90:c8:fe

the following:  
IP address: 192.168.0.3  
Subnet mask: 255.255.255.0  
Default gateway: 0.0.0.0

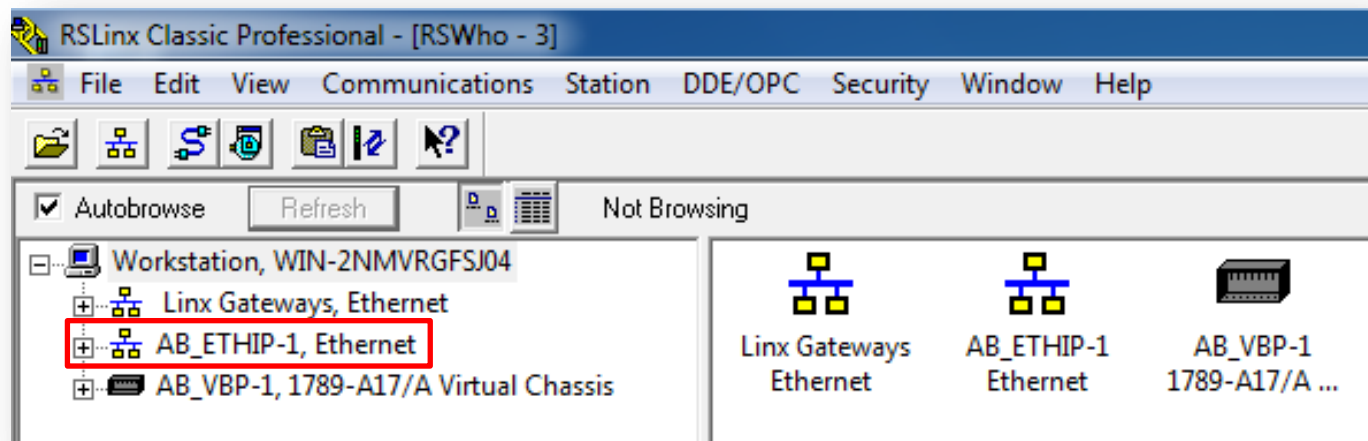
Click Finish to exit, or click Back to assign another IP address.

< Voltar Concluir

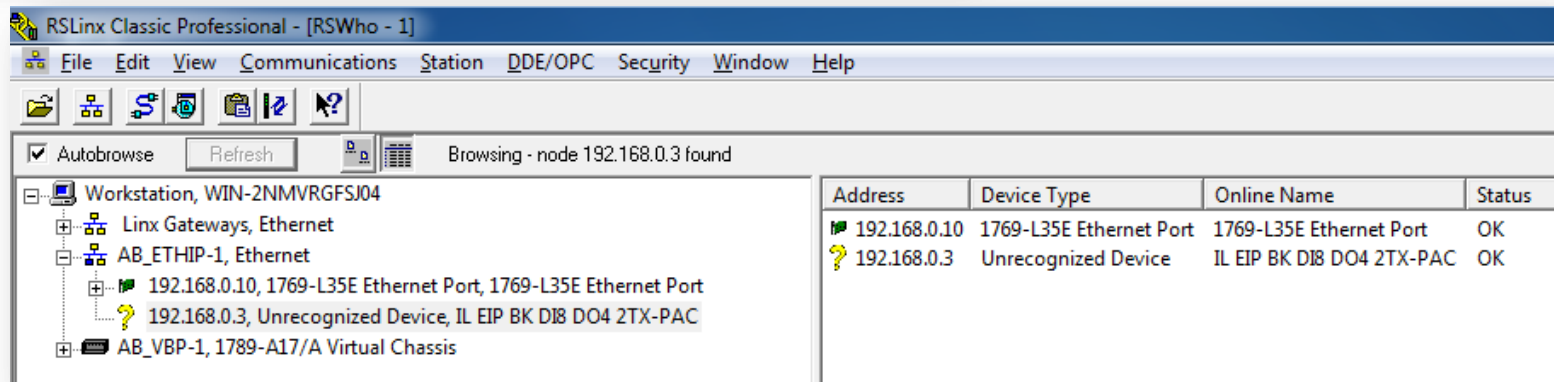
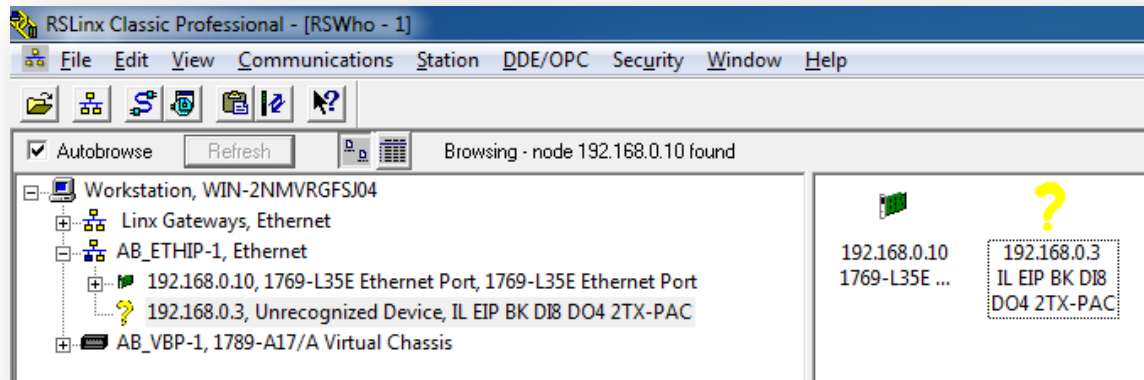
O RSLinx identifica os dispositivos na rede e mostra seus status.



O RSLinx identifica os dispositivos na rede e mostra seus status.



# O RSLinx identifica os dispositivos na rede e mostra seus status.





# Leitura de parâmetros e configurações da REMOTA via browser

IL EIP BK DI8 DO4 - Homepage X

192.168.0.3

PHENIX CONTACT

IL EIP BK DI8 DO4

- General Instructions
- Device Information
- Device Configuration
- Inline Station

IL EIP BK DI8 DO4 2TX-PAC last update: 19:55:49



EtherNet/IP



# Configurações de parâmetros da REMOTA via browser

IL EIP BK DI8 DO4 - Device Conf X +

192.168.0.3/ipconfig.htm

**PHOENIX CONTACT**

IL EIP BK DI8 DO4

General Instructions

Device Information

Device Configuration

**IP Configuration**

System Identification

Software Update

Change Password

Inline Station

Home

**IL EIP BK DI8 DO4 2TX-PAC** last update: 19:57:56

### IP Configuration

|                 |               |
|-----------------|---------------|
| IP Address      | 192.168.0.3   |
| Subnet Mask     | 255.255.255.0 |
| Default-Gateway | 0.0.0.0       |

Please enter IP Address, Subnet Mask and Gateway Address in dotted decimal notation (e.g., 172.16.16.230). The changes will take effect after the reboot of the IL EIP BK DI8 DO4.

Enter Password  Reboot

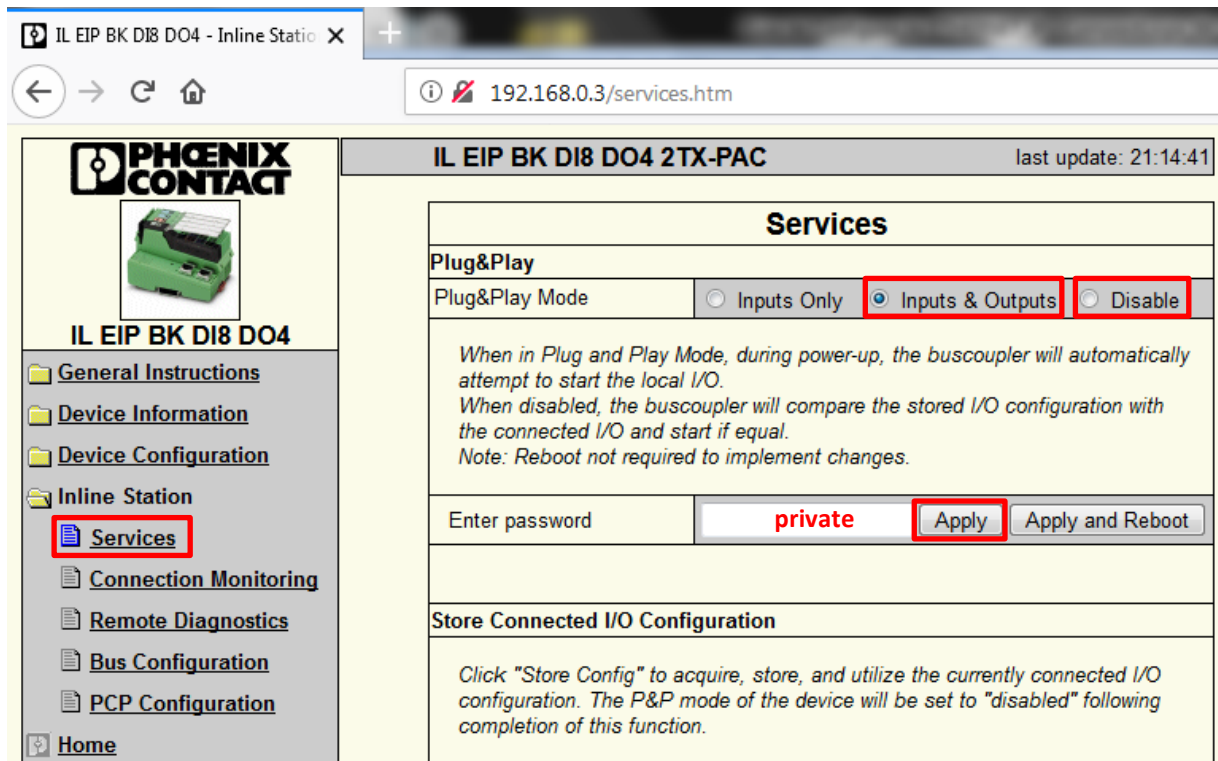
BootP Requests ☒ Enable ☐ Disable

Before disabling automatic BootP setting, be sure to record the current IP address. You will need the current IP address if you want to re-enable BootP setting of the IP address. If you forget the IP address, the only way is to delete the whole configuration with the Reset-Button during power up.

Enter Password private Apply

Para desabilitar a função BootP e mantém o IP estático

# Configurações de parâmetros da REMOTA via browser



The screenshot shows a web browser window with the address bar displaying "192.168.0.3/services.htm". The page title is "IL EIP BK DI8 DO4 2TX-PAC" with a "last update: 21:14:41" timestamp. The left sidebar contains a navigation menu with the following items: "General Instructions", "Device Information", "Device Configuration", "Inline Station", "Services" (highlighted with a red box), "Connection Monitoring", "Remote Diagnostics", "Bus Configuration", "PCP Configuration", and "Home". The main content area is titled "Services" and includes a "Plug&Play" section. In this section, the "Plug&Play Mode" is set to "Inputs & Outputs" (selected with a radio button and highlighted with a red box). Below this, there is a text description: "When in Plug and Play Mode, during power-up, the buscoupler will automatically attempt to start the local I/O. When disabled, the buscoupler will compare the stored I/O configuration with the connected I/O and start if equal. Note: Reboot not required to implement changes." At the bottom of the "Plug&Play" section, there is a password field containing "private" and an "Apply" button (highlighted with a red box), followed by an "Apply and Reboot" button. Below the "Plug&Play" section is a "Store Connected I/O Configuration" section with a text description: "Click 'Store Config' to acquire, store, and utilize the currently connected I/O configuration. The P&P mode of the device will be set to 'disabled' following completion of this function."

O modo Plug&Play deve estar ATIVO somente na configuração inicial para a identificação automática de todos os cartões de IO acoplado no barramento.

Posteriormente este modo deve ser desativado para que o CLP mestre consiga ler e escrever nos IO.

# Configurações de parâmetros da REMOTA via browser

IL EIP BK DI8 DO4 - Inline Station X

192.168.0.3/busconf.htm

**PHOENIX CONTACT**

IL EIP BK DI8 DO4





last update: 12:51:45

**Bus Configuration**

Produced size in bytes: 28 (Module Inputs)

Consumed size in bytes: 26 (Module Outputs)

Baudrate: 500 kBaud

| Number | Symbol  | Description  |
|--------|---|--|
| 0      |  | IL EIP BK DI8 DO4  |
| 1      |  | Module with 4 digital outputs.                                     |
| 2      |  | Module with 8 digital inputs.                                      |
| 3      |  | Function module with 12 word(s) of process data and 2 pcw word(s). |

General Instructions

Device Information

Device Configuration

Inline Station

Services

Process Data Monitoring

Remote Diagnostics

**Bus Configuration**

PCP Configuration

Home

Tamanho de memória a ser reservada para a REMOTA no RS Logix5000.

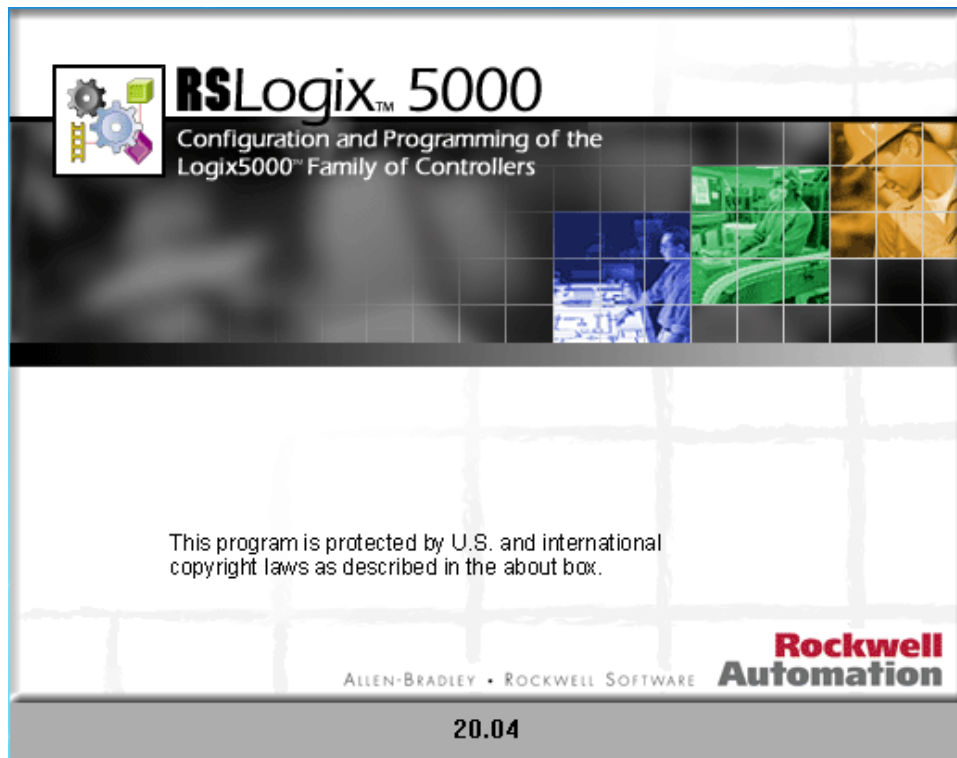
28 Bytes = 14 Words  
26 Bytes = 13 Words

4 DO onboard na cabeça de rede

8 DI onboard na cabeça de rede

Cartão de Medição de Energia

# Iniciar o projeto no RS Logix5000



# Iniciar o projeto no RS Logix5000

Vendor: Allen-Bradley

Type: 1769-L32E CompactLogix5332E Controller

Revision: 20

☐ Redundancy Enabled

Name:

Description:

Chassis Type: <none>

Slot: 0 Safety Partner Slot: <none>

Create In: C:\RSLogix 5000\Projects

Security Authority: No Protection

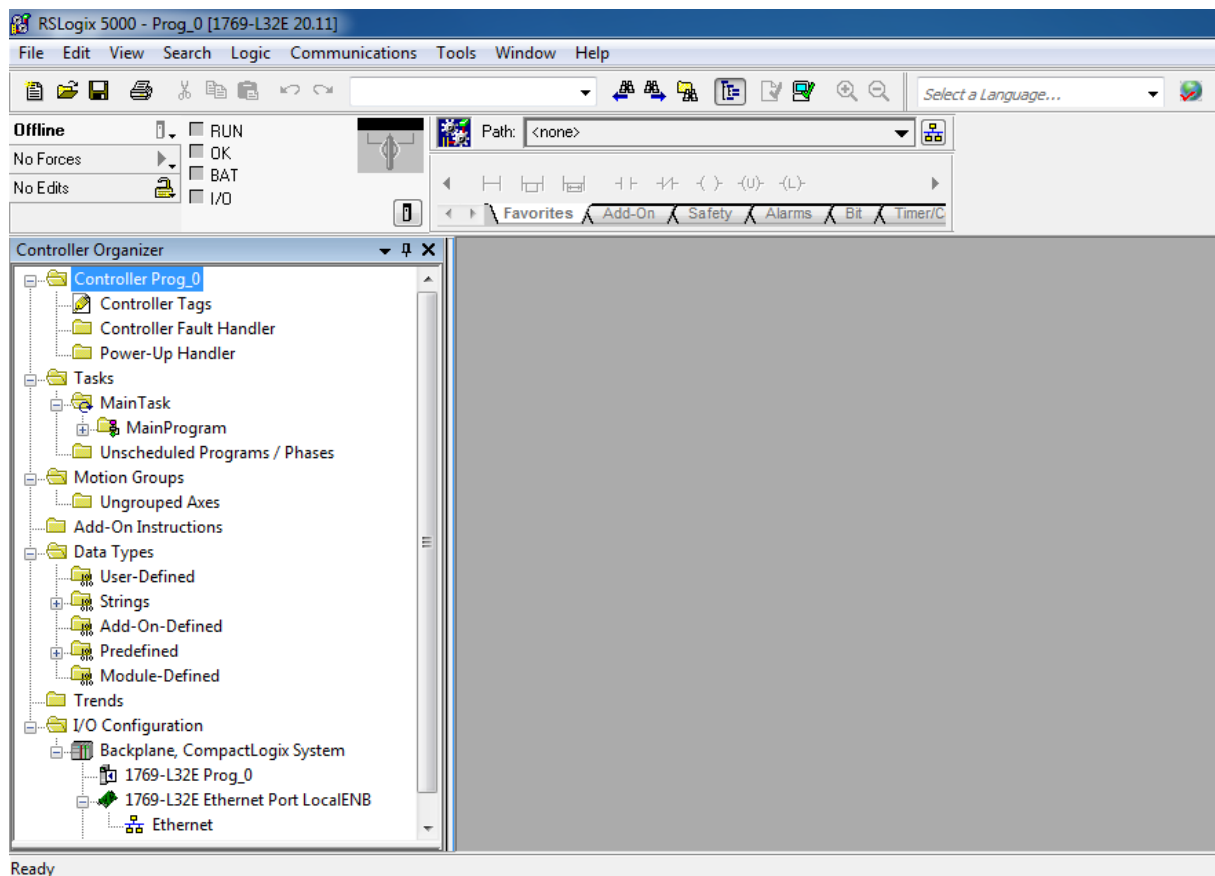
☐ Use only the selected Security Authority for Authentication and Authorization

Buttons: OK, Cancel, Help, Browse...

Selecionar o modelo da CPU  
e versão de firmware

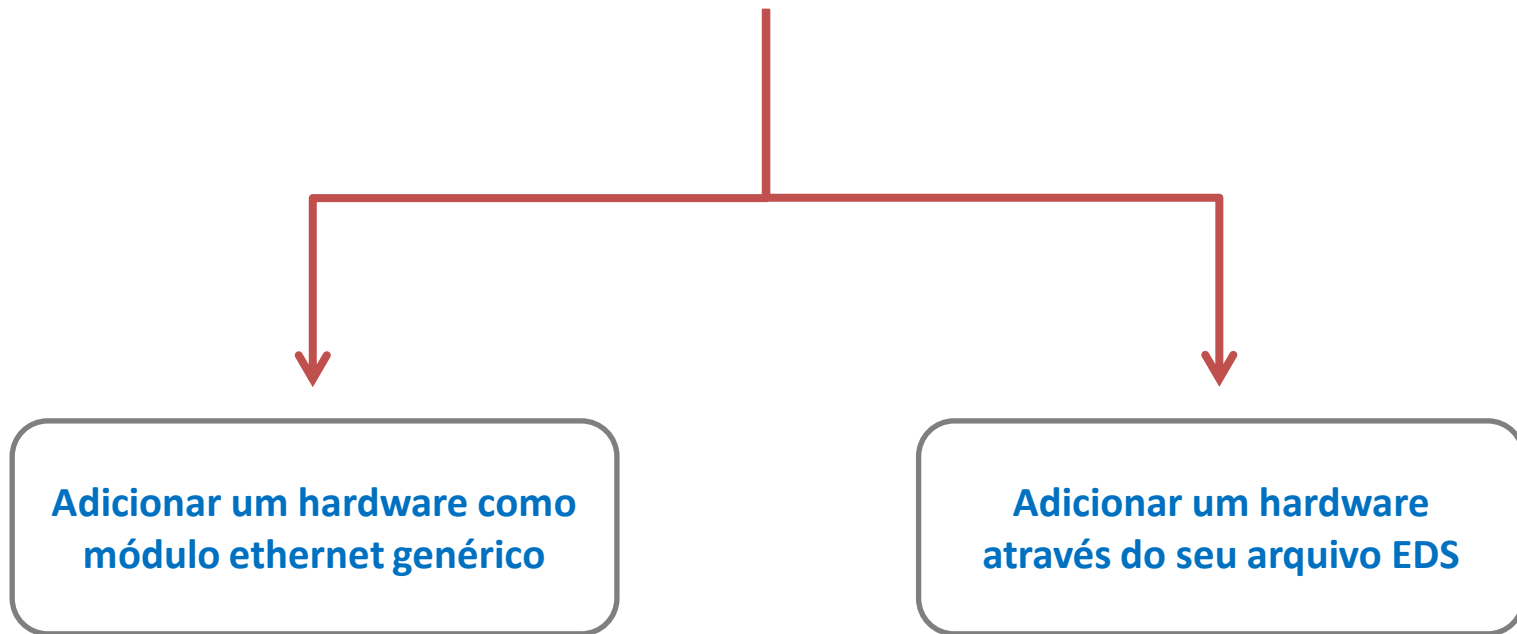
Local onde será salvo o projeto

# Iniciar o projeto no RS Logix5000



# Existem duas formas de adicionar a REMOTA a arquitetura do projeto

## IL EIP BK DI8 DO4 2TX-PAC



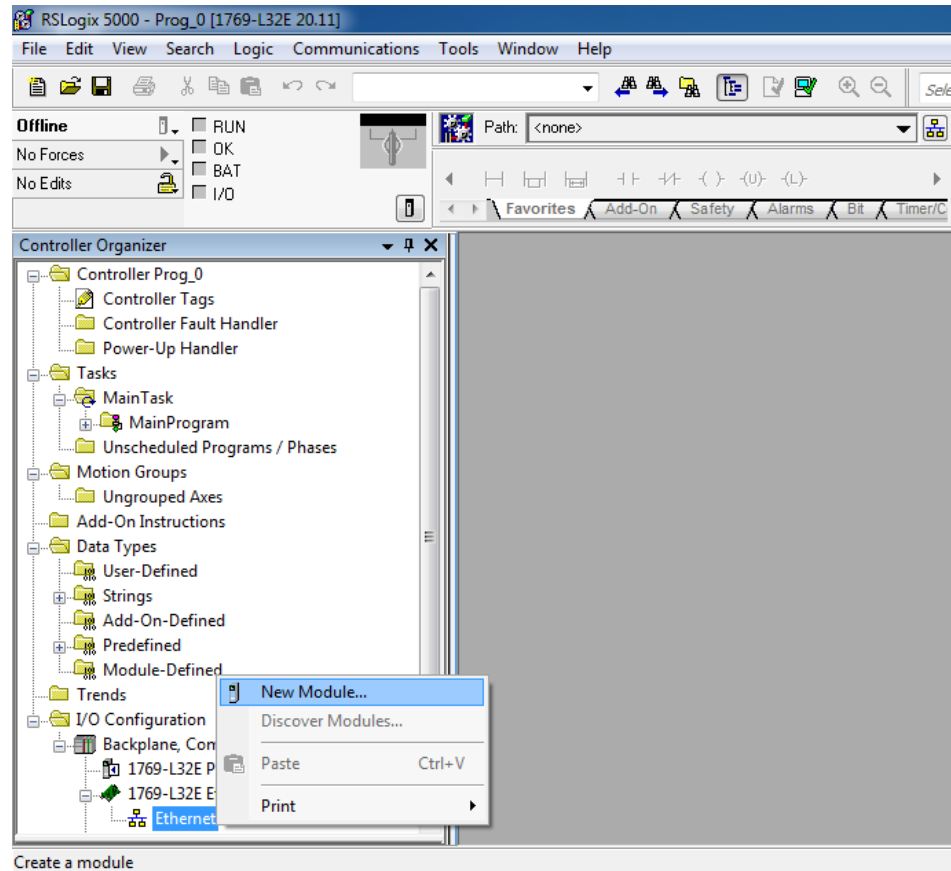


# Existem duas formas de adicionar a REMOTA a arquitetura do projeto IL EIP BK DI8 DO4 2TX-PAC

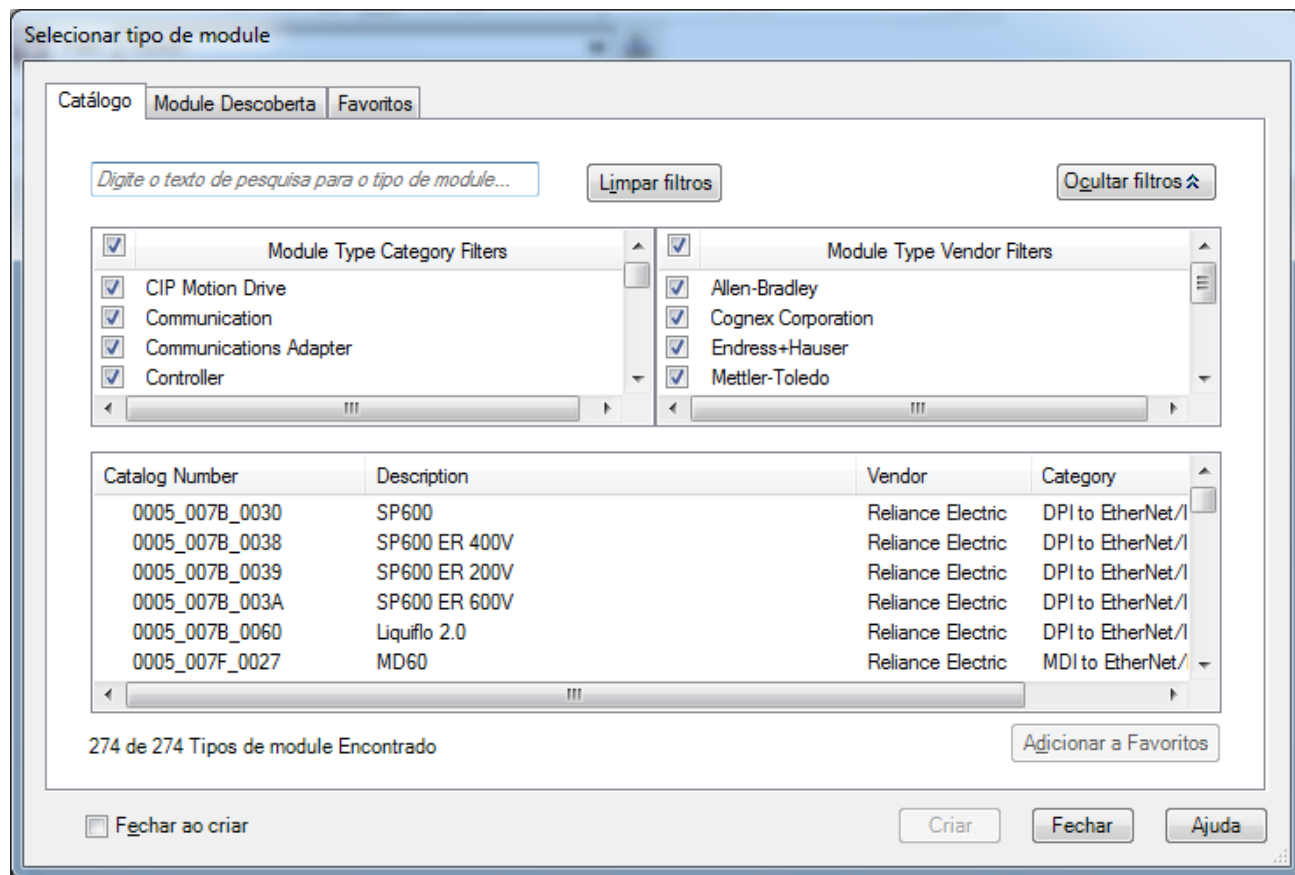


Adicionar um hardware como  
módulo ethernet genérico

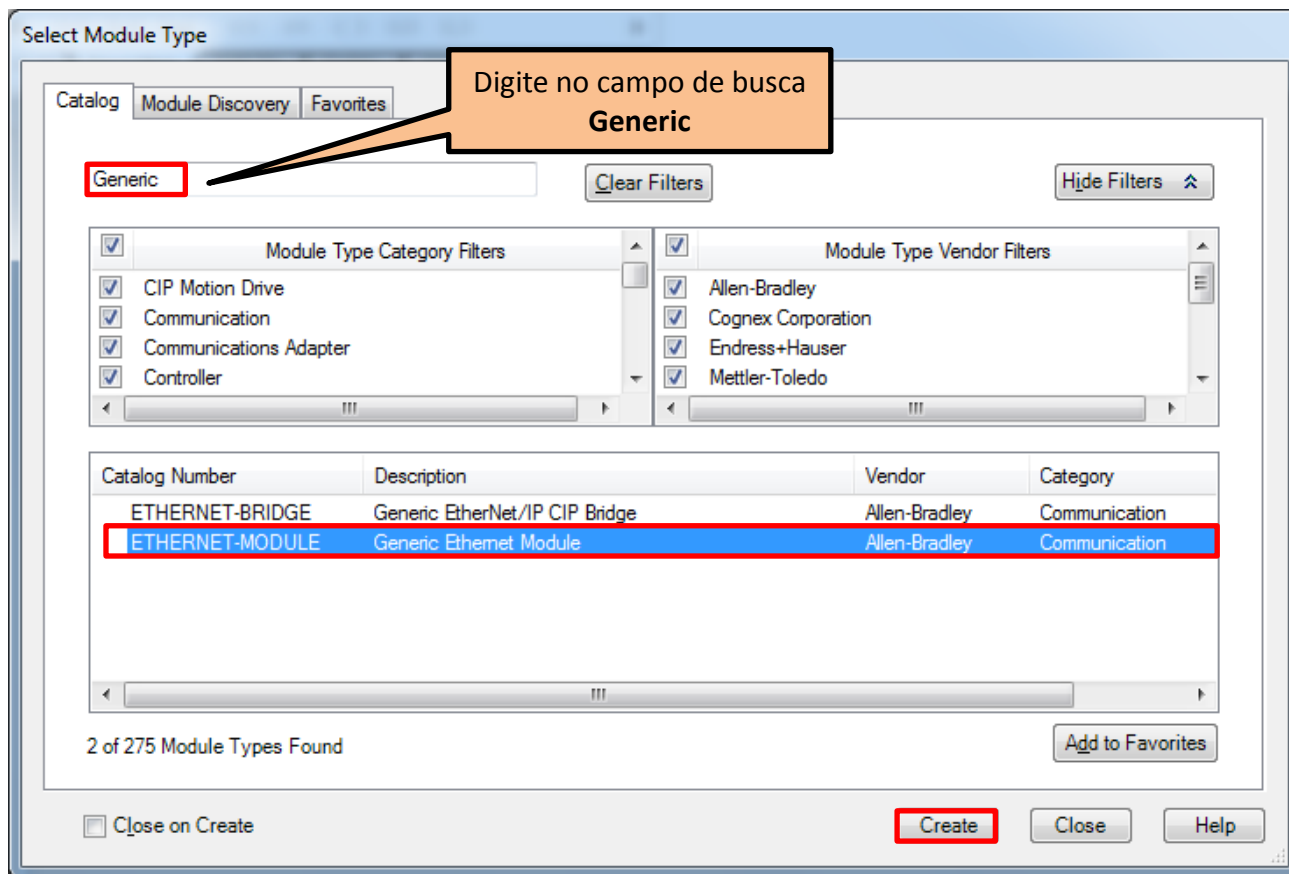
# Adicionar a REMOTA como módulo ethernet genérico



# Adicionar a REMOTA como módulo ethernet genérico



# Adicionar a REMOTA como módulo ethernet genérico



# Adicionar a REMOTA como módulo ethernet genérico

Module Properties Report: LocalENB (ETHERNET-MODULE 1.1)

General Connection Module Info

Type: ETHERNET-MODULE Generic Ethernet Module  
Vendor: Allen-Bradley  
Parent: LocalENB

Name: IL\_BK\_EIP

Description:

Comm Format: Data - INT

Address / Host Name

☒ IP Address: 192 . 168 . 0 . 3

☐ Host Name:

Status: Offline

OK Cancel Apply Help

Connection Parameters

|                | Assembly Instance: | Size:       |
|----------------|--------------------|-------------|
| Input:         | 101                | 14 (16-bit) |
| Output:        | 100                | 13 (16-bit) |
| Configuration: | 1                  | 0 (8-bit)   |

Status Input:

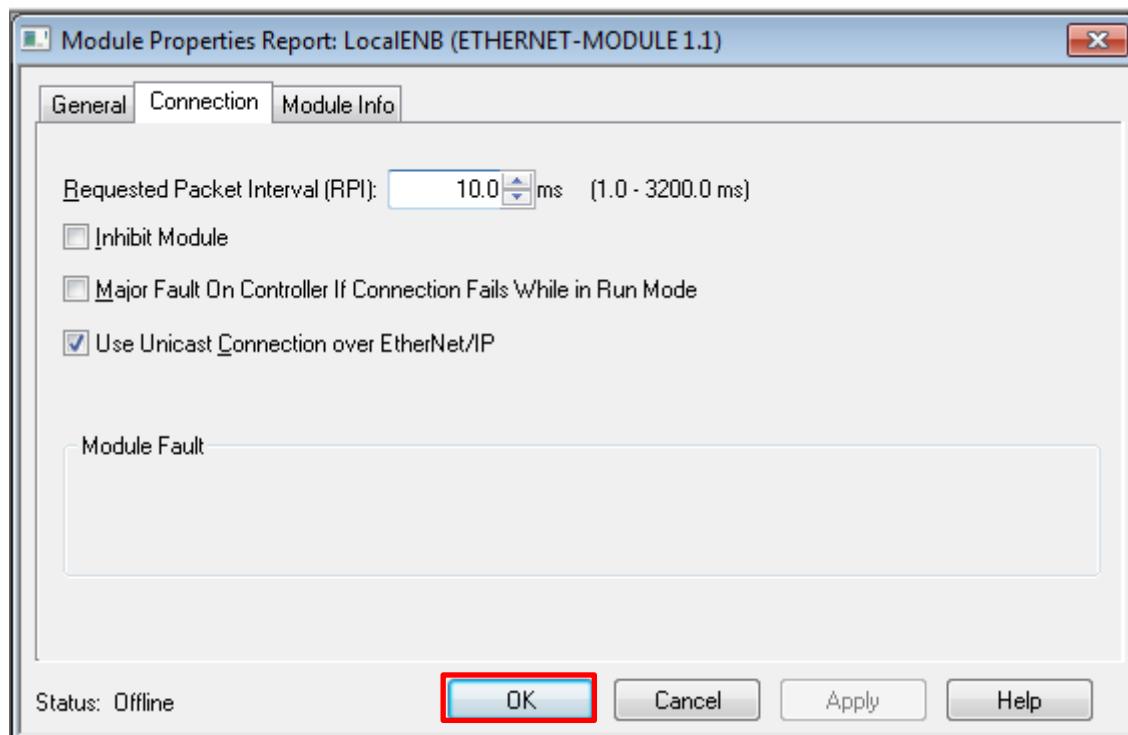
Status Output:

Reserva de memória necessária para dados de entrada e saída.

**Configurar conforme visualizado na pagina web da REMOTA.**

**OBS. pagina web está em bytes e nas configurações do módulo está em INT**

# Adicionar a REMOTA como módulo ethernet genérico



# Existem duas formas de adicionar a REMOTA a arquitetura do projeto IL EIP BK DI8 DO4 2TX-PAC



Adicionar um hardware  
através do seu arquivo EDS



# Baixar o arquivo EDS da REMOTA para ser importado no RSLogix5000

## Acoplador de Bus - IL EIP BK DI8 DO4 2TX-PAC - 2897758



Inline, Acoplador Bus, EtherNet/IP™, Suporte RJ45, Entradas digitais: 8, 24 V DC, tecnologia de conexão: 3 condutores, Saídas digitais: 4, 24 V DC, 500 mA, tecnologia de conexão: 3 condutores, velocidade de transmissão no bus local: 500 kBit/s / 2 MBit/s, grau de proteção: IP20, incluindo conectores Inline e campos de identificação

[Criar PDF](#)

Visão geral

Dados técnicos

Acessórios

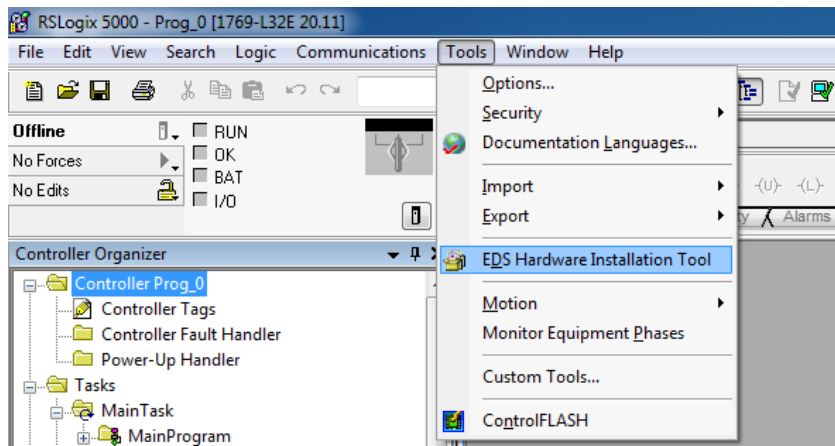
Certificações

**Downloads**

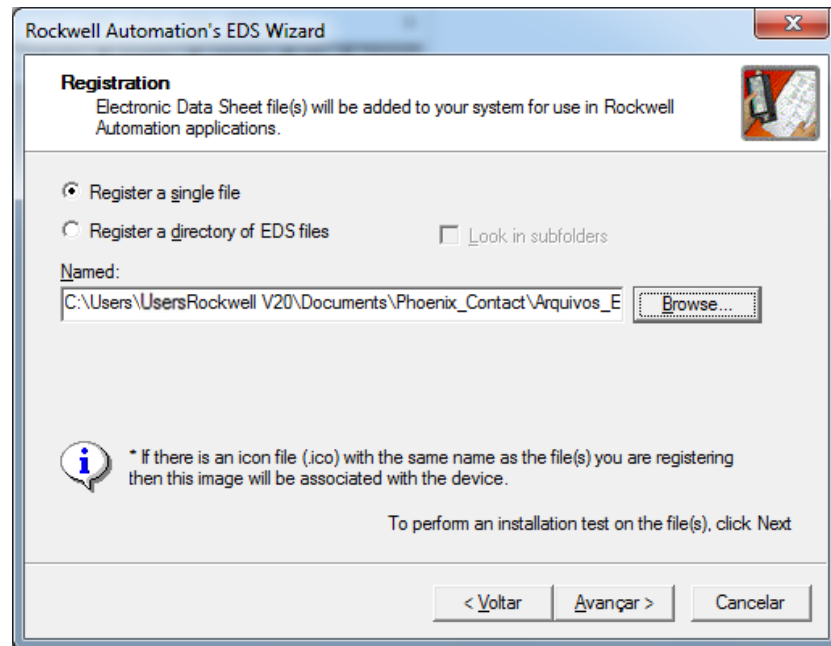
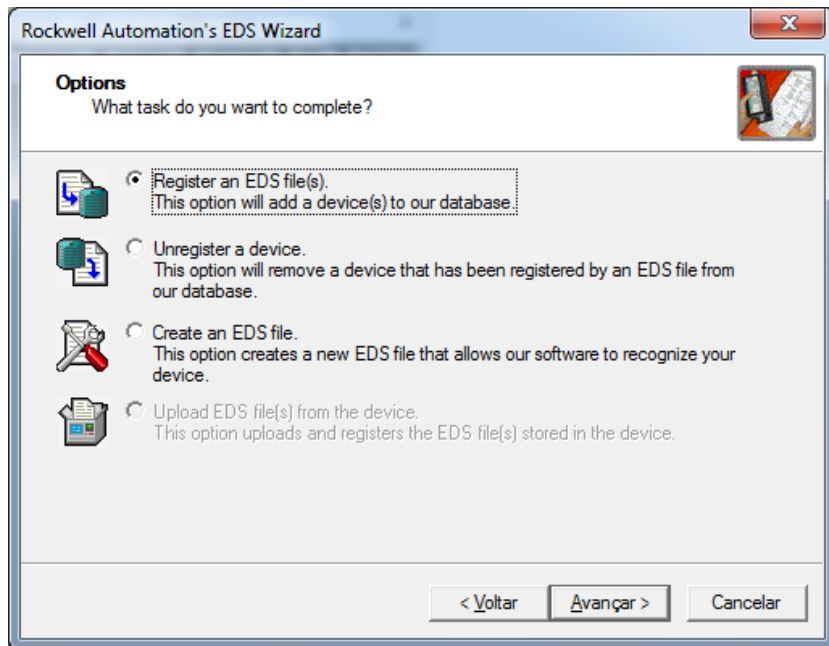
### Descrição do equipamento

|                          | Descrição  | Idioma        | Versão |
|--------------------------|--|---------------|--------|
| <input type="checkbox"/> | <p>[zip, 6 KB] <a href="#">Descrição do equipamento</a></p> <p>EDS-Datei für die Projektierung</p> <hr/> <p>SHA256 Checksum:<br/>4aca8e68e833d28a4cb667f448a57d33e6e3d945fa0b9e16b99ebb9caa4d869b<br/><a href="#">IL_EIP_BK_DI8_DO4_EDS_V130.zip</a></p> | Internacional | 1.30   |

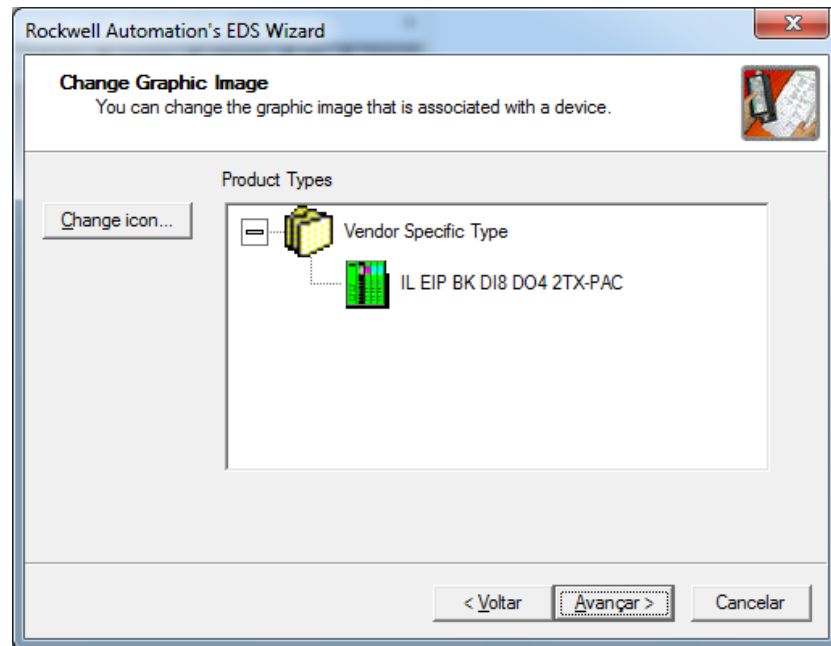
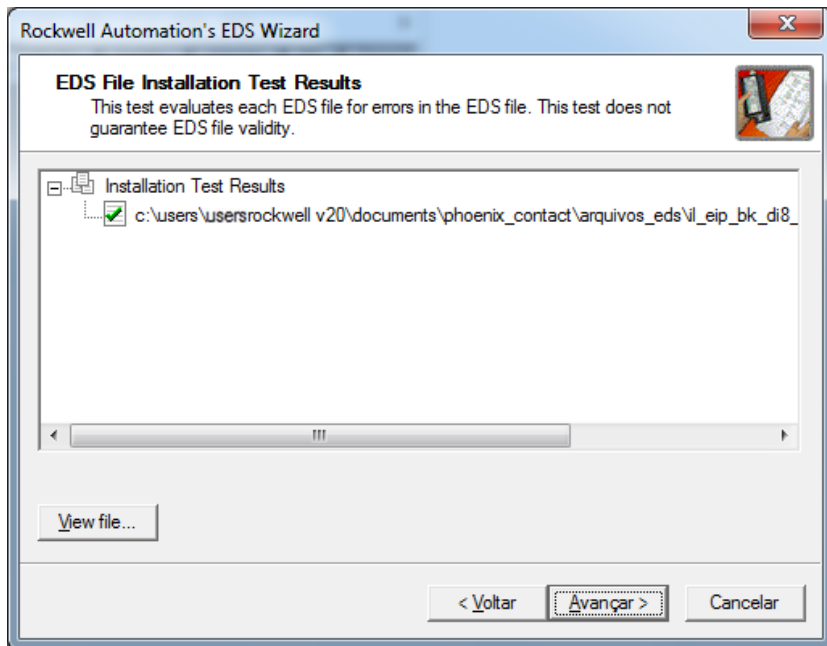
# Instalar o EDS do hardware IL EIP BK DI8 DO4 2TX-PAC



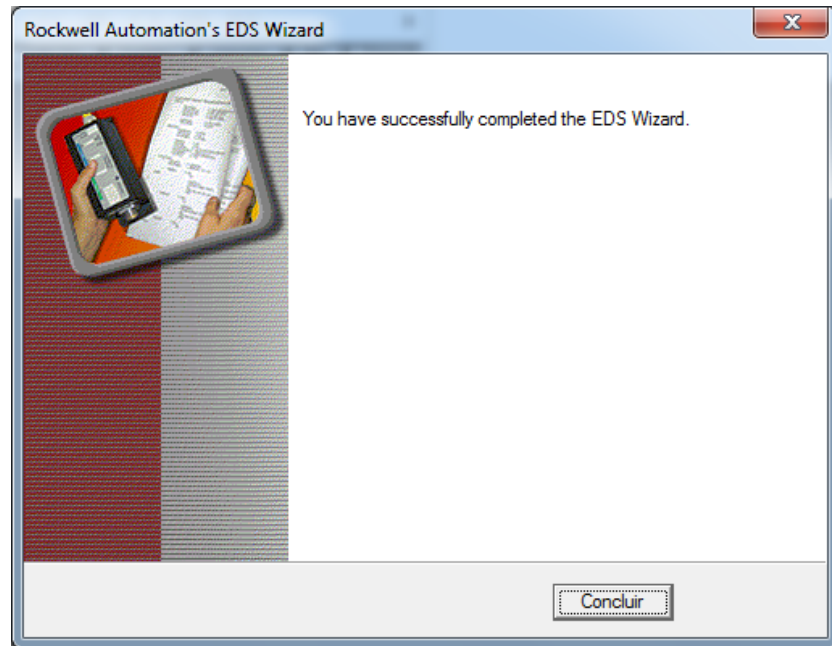
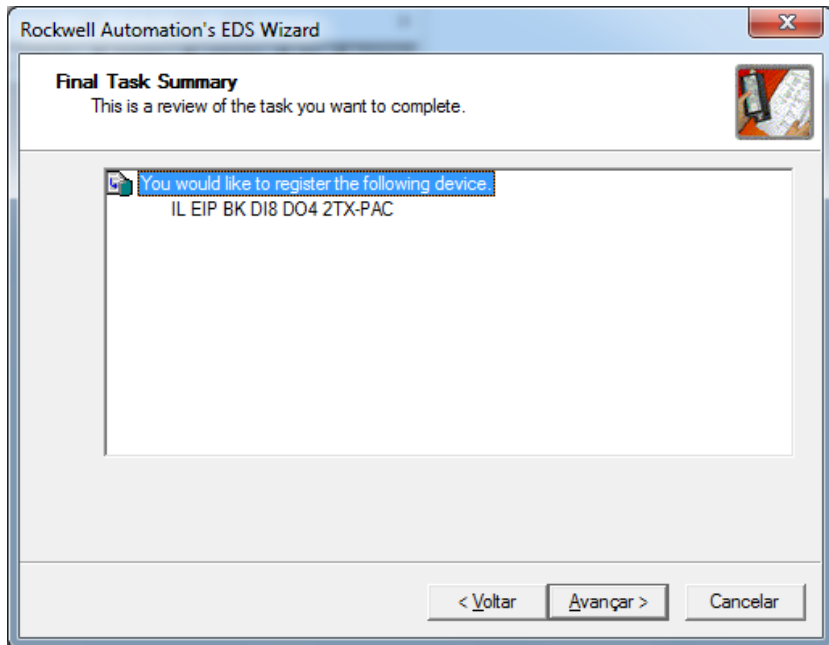
# Instalar o EDS do hardware IL EIP BK DI8 DO4 2TX-PAC



# Instalar o EDS do hardware IL EIP BK DI8 DO4 2TX-PAC



# Instalar o EDS do hardware IL EIP BK DI8 DO4 2TX-PAC



# Adicionar a REMOTA IL EIP BK DI8 DO4 2TX-PAC a arquitetura do projeto

Selecionar tipo de module

Catálogo Module Descoberta Favoritos

*Digite o texto de pesquisa para o tipo de module...*

☒ Module Type Category Filters

- ☒ CIP Motion Drive
- ☒ Communication
- ☒ Communications Adapter
- ☒ Controller

☒ Module Type Vendor Filters

- ☐ Mettler-Toledo
- ☐ Parker Hannifin Corporation
- ☒ **Phoenix Contact**
- ☐ Prosoft Technology

| Catalog Number | Description               | Vendor          | Category            |
|----------------|---------------------------|-----------------|---------------------|
| 2897758        | IL EIP BK DI8 DO4 2TX-PAC | Phoenix Contact | Generic Device(keya |

1 de 274 Tipos de module Encontrado

☐ Fechar ao criar

Desmarque o checkbox e role a lista de fabricantes até encontrar **Phoenix Contact**

# Adicionar a REMOTA IL EIP BK DI8 DO4 2TX-PAC a arquitetura do projeto

**New Module**

**General\*** | Connection | Module Info | Internet Protocol | Port Configuration

Type: 2897758 IL EIP BK DI8 DO4 2TX-PAC  
Vendor: Phoenix Contact  
Parent: LocalENB  
Name: Remota\_PXC  
Description:

Ethernet Address  
☐ Private Network: 192.168.1.  
☒ IP Address: 192 . 168 . 0 . 3  
☐ Host Name:

Module Definition  
Revision: 1.12  
Electronic Keying: Compatible Module  
Connections: Class1 Exclusive Owner  
Change ...

Status: Creating OK Cancel Help

**Module Definition**

Revision: 1 12

Electronic Keying: Compatible Module

Connections:

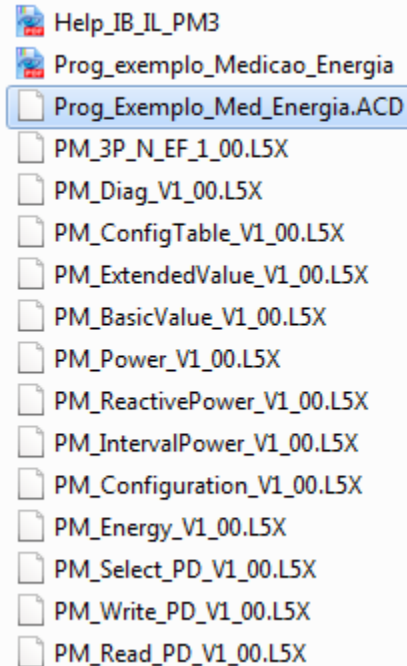
| Name                   | Size       |
|------------------------|------------|
| Class1 Exclusive Owner | Input: 14  |
|                        | Output: 13 |

OK Cancel Help



**Indicamos os testes iniciais sejam a partir do programa exemplo fornecido, juntamente com os Functions Blocks e suas respectivas configurações e os parâmetros de configuração e leitura.**

**Informações sobre os parâmetros de entrada e saída dos blocos, podem ser consultados no pdf “Help\_IB\_IL\_PM3”.**



# Configuração do Offset do FB Read e Write.

Neste exemplo o cartão de medição de energia está acoplado imediatamente ao lado da cabeça de rede.

A cabeça de rede consome 2 words (IN) e 1 word (OUT).

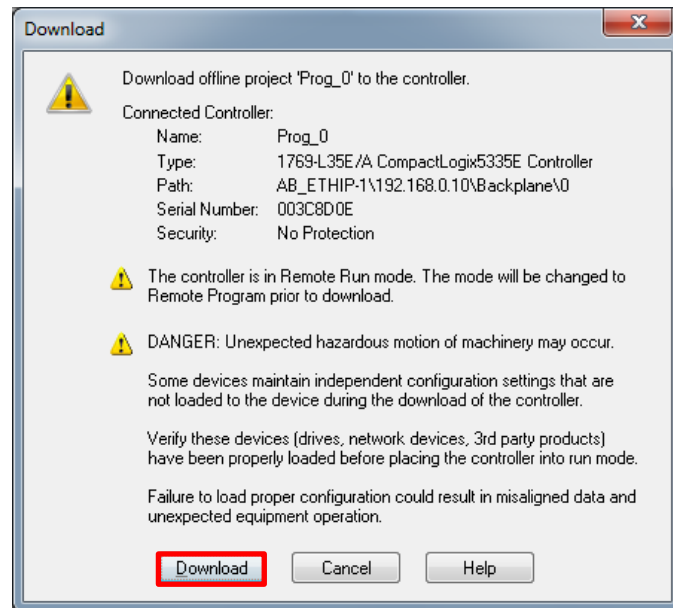
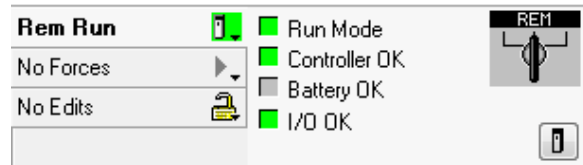
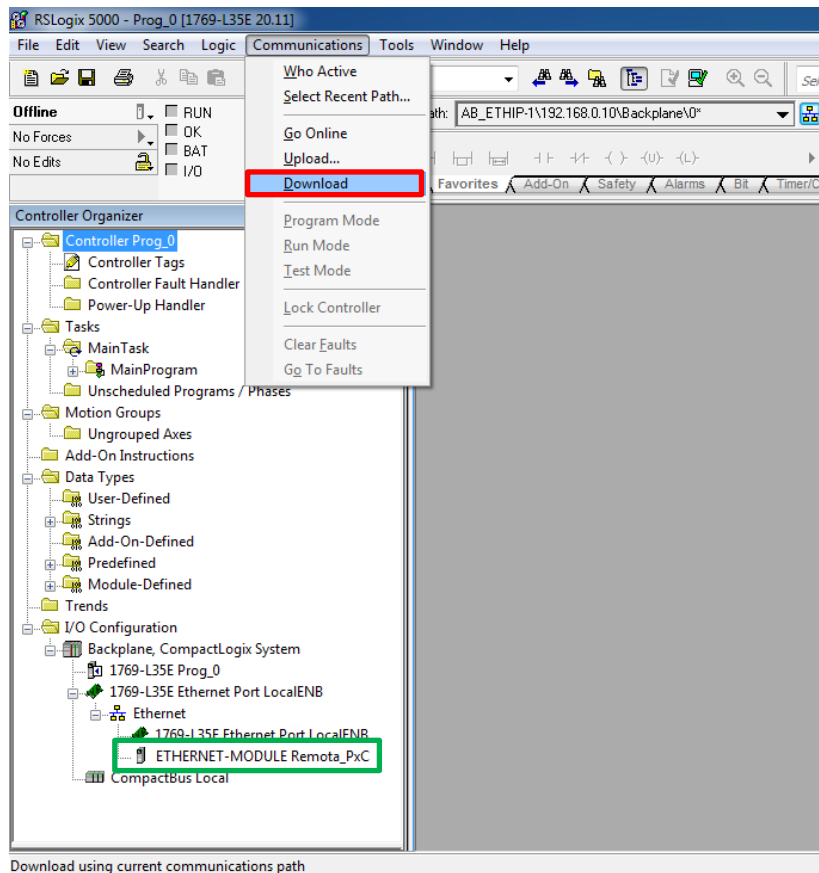
Por este motivo o Offset Read: 2 e o Offset Write: 1



O cartão de medição de energia consome 12 words (IN) e 12 words (OUT) .

A estação remota completa necessita de 14 words(IN) e 13 words(OUT) .

# Download das configurações para o CLP e status de configuração OK



# Grandezas Elétricas fornecidas pelo cartão de Medição de Energia

| PM_BasicValue_V1_00 |                    |     |
|---------------------|--------------------|-----|
| PM_BasicValue_V1_00 | PM_BasicValue_01   | ... |
| xActivate           | xStatusRun         |     |
|                     | 1                  |     |
| xReady              | xReady_BasicValue  |     |
|                     | 1                  |     |
| rVoltage_L1         | rVoltage_L1        |     |
|                     | 0.2                |     |
| rVoltage_L2         | rVoltage_L2        |     |
|                     | 0.1                |     |
| rVoltage_L3         | rVoltage_L3        |     |
|                     | 0.2                |     |
| rCurrent_L1         | rCurrent_L1        |     |
|                     | 0.060000002        |     |
| rCurrent_L2         | rCurrent_L2        |     |
|                     | 0.060000002        |     |
| rCurrent_L3         | rCurrent_L3        |     |
|                     | 0.060000002        |     |
| rCurrent_N          | rCurrent_N         |     |
|                     | 0.10000001         |     |
| rActivePower_L1     | rActivePower_L1    |     |
|                     | 0.0                |     |
| rActivePower_L2     | rActivePower_L2    |     |
|                     | 0.0                |     |
| rActivePower_L3     | rActivePower_L3    |     |
|                     | 0.0                |     |
| rActivePowerTotal   | rActivePower_Total |     |
|                     | 0.0                |     |
| udtDATA             | udtData            |     |

| PM_ExtendedValue_V1_00  |                      |     |
|-------------------------|----------------------|-----|
| PM_ExtendedValue_V1_... | PM_ExtendedValue     | ... |
| xActivate               | xStatusRun           |     |
|                         | 1                    |     |
| xReady                  | xReady_ExtendedValue |     |
|                         | 1                    |     |
| rVoltage_L12            | rVoltage_L12         |     |
|                         | 0.2                  |     |
| rVoltage_L23            | rVoltage_L23         |     |
|                         | 0.2                  |     |
| rVoltage_L31            | rVoltage_L31         |     |
|                         | 0.2                  |     |
| rCurrentFiltered_L1     | rCurrentFiltered_L1  |     |
|                         | 0.060000002          |     |
| rCurrentFiltered_L2     | rCurrentFiltered_L2  |     |
|                         | 0.060000002          |     |
| rCurrentFiltered_L3     | rCurrentFiltered_L3  |     |
|                         | 0.060000002          |     |
| rCurrentFiltered_N      | rCurrentFiltered_N   |     |
|                         | 0.10000001           |     |
| XS0_Out_Bit0            | XS0_Out_Bit0         |     |
|                         | 0                    |     |
| XS0_Out_Bit4            | XS0_Out_Bit4         |     |
|                         | 0                    |     |
| XS0_Out_Bit8            | XS0_Out_Bit8         |     |
|                         | 0                    |     |
| rFrequency              | rFrequency           |     |
|                         | 0.0                  |     |
| wEnergyDirection        | wEnergyDirection     |     |
|                         | 16#0000              |     |
| udtDATA                 | udtData              |     |

| PM_Power_V1_00      |                      |     |
|---------------------|----------------------|-----|
| PM_Power_V1_00      | PM_Power             | ... |
| xActivate           | xStatusRun           |     |
|                     | 1                    |     |
| xReady              | xReady_Power         |     |
|                     | 1                    |     |
| rReactivePower_L1   | rReactivePower_L1    |     |
|                     | 0.0                  |     |
| rReactivePower_L2   | rReactivePower_L2    |     |
|                     | 0.0                  |     |
| rReactivePower_L3   | rReactivePower_L3    |     |
|                     | 0.0                  |     |
| rApperentPower_L1   | rApperentPower_L1    |     |
|                     | 0.0                  |     |
| rApperentPower_L2   | rApperentPower_L2    |     |
|                     | 0.0                  |     |
| rApperentPower_L3   | rApperentPower_L3    |     |
|                     | 0.0                  |     |
| rApperentPowerTotal | rApperentPower_Total |     |
|                     | 0.0                  |     |
| rPowerFactor_L1     | rPowerFactor_L1      |     |
|                     | 1.0                  |     |
| rPowerFactor_L2     | rPowerFactor_L2      |     |
|                     | 1.0                  |     |
| rPowerFactor_L3     | rPowerFactor_L3      |     |
|                     | 1.0                  |     |
| rPowerFactorTotal   | rPowerFactor_Total   |     |
|                     | 1.0                  |     |
| udtDATA             | udtData              |     |

# Grandezas Elétricas fornecidas pelo cartão de Medição de Energia

| PM_Energy_V1_00           |                           |
|---------------------------|---------------------------|
| PM_Energy_V1_00           | PM_Energy_V1_00           |
| xActivate                 | xStatusRun                |
|                           | 1                         |
| xReady                    | xReady_Energy             |
|                           | 1                         |
| rActiveEnergyInput        | rActiveEnergyInput        |
|                           | 0.0                       |
| rActiveEnergyOutput       | rActiveEnergyOutput       |
|                           | 0.0                       |
| rReactiveEnergyInductive  | rReactiveEnergyInductive  |
|                           | 0.0                       |
| rReactiveEnergyCapacitive | rReactiveEnergyCapacitive |
|                           | 0.0                       |
| udiOperatingTime          | udiOperatingTime          |
|                           | 0                         |
| udtDATA                   | udtData                   |

| PM_IntervalPower_V1_00        |                              |
|-------------------------------|------------------------------|
| PM_IntervalPower_V1_00        | PM_IntervalPower_V1_00       |
| xActivate                     | xStatusRun                   |
|                               | 1                            |
| xReady                        | xReady_IntervalPower         |
|                               | 1                            |
| rActualIntervalActivePower    | rActualIntervalActivePower   |
|                               | 0.0                          |
| rActualIntervalReactivePower  | rActualIntervalReactivePower |
|                               | 0.0                          |
| rActualIntervalApperentPower  | rActualIntervalApperentPower |
|                               | 0.0                          |
| rElapsedIntervalActivePower   | rElapseIntervalActivePower   |
|                               | 0.0                          |
| rElapsedIntervalReactivePower | rElapseIntervalReactivePower |
|                               | 0.0                          |
| rElapsedIntervalApperentPower | rElapseIntervalApperentPower |
|                               | 0.0                          |
| rMaxIntervalActivePower       | rMaxIntervalActivePower      |
|                               | 0.0                          |
| rMaxIntervalReactivePower     | rMaxIntervalReactivePower    |
|                               | 0.0                          |
| rMaxIntervalApperentPower     | rMaxIntervalApperentPower    |
|                               | 0.0                          |
| udtDATA                       | udtData                      |

| PM_ReactivePower_V1_00 |                        |
|------------------------|------------------------|
| PM_ReactivePower_V1_00 | PM_ReactivePower_V1_00 |
| xActivate              | xStatusRun             |
|                        | 1                      |
| xReady                 | xReady_ReactivePower   |
|                        | 0                      |
| rDistortReactPower1    | rDistortReactPower1    |
|                        | 0.0                    |
| rDistortReactPower2    | rDistortReactPower2    |
|                        | 0.0                    |
| rDistortReactPower3    | rDistortReactPower3    |
|                        | 0.0                    |
| rReactivePower1Std     | rReactivePower1Std     |
|                        | 0.0                    |
| rReactivePower2Std     | rReactivePower2Std     |
|                        | 0.0                    |
| rReactivePower3Std     | rReactivePower3Std     |
|                        | 0.0                    |
| rTotalReactivePower    | rTotalReactivePower    |
|                        | 0.0                    |
| rCosPhi1               | rCosPhi1               |
|                        | 0.0                    |
| rCosPhi2               | rCosPhi2               |
|                        | 0.0                    |
| rCosPhi3               | rCosPhi3               |
|                        | 0.0                    |
| udtDATA                | udtData                |



***INSPIRING INNOVATIONS***

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