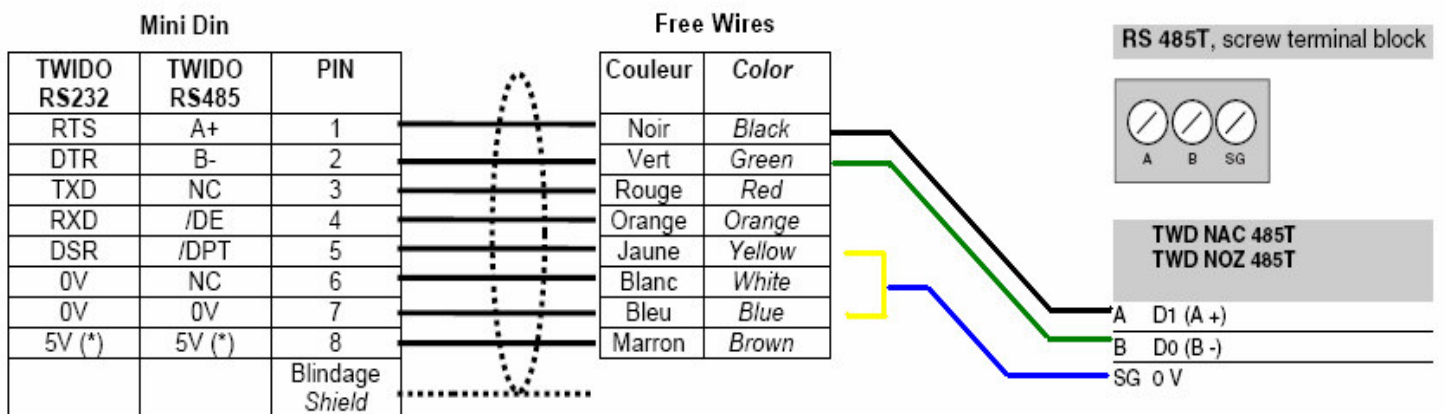
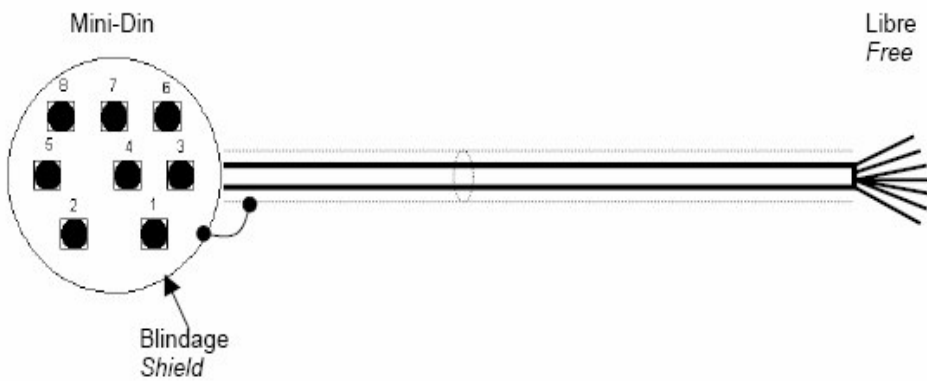
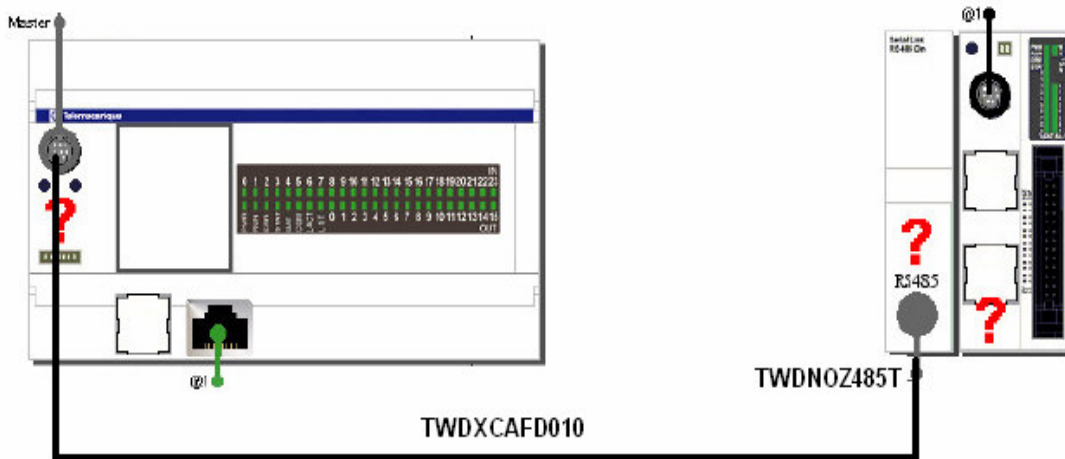


EXEMPLO DE CONFIGURAÇÃO REMOTE LINK – TWIDO.

Objetivo: Ilustrar os endereçamentos para rede Remote Link nas duas configurações: *Twido Extension Element (Peer)* e *Twido I/O Element (Remote I/O)*.

Arquitetura e Esquema de ligações Remote Link:



(*) : 180mA au total : 180mA max cumulative

Longueur : lenght : 1m

Configuração dos controladores – TwidoSuite:

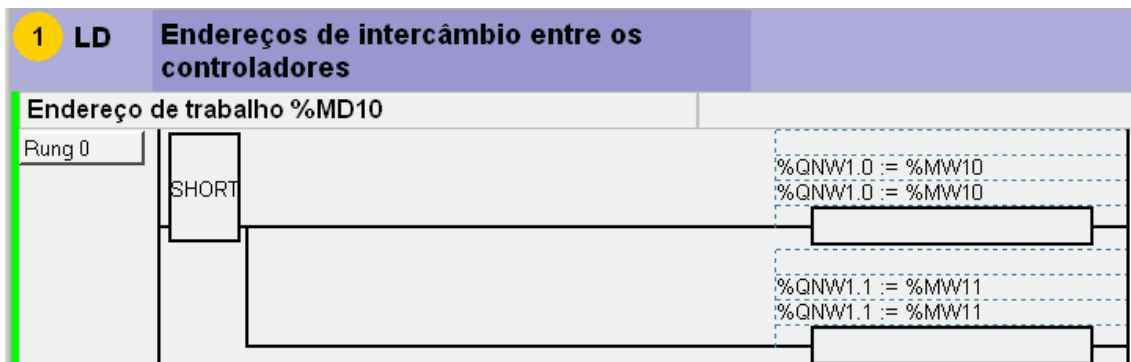
A) Twido Extension Element (Peer): Permite que os controladores tenham aplicações independentes.

Configura-se na porta de programação como Remote Link Master e define-se um Twido Extension Element o endereço 1.

The image displays four screenshots from the TwidoSuite software interface:

- Top Left:** A ladder logic diagram showing a 'Twido Extension Element @1' connected to a 'Twido Master - TWDLCAE40DRF' via a 'remote link'.
- Top Right:** The 'Catalog' window showing the 'Twido extension element' selected under the 'Remote Twido' category.
- Bottom Left:** The 'Configuration' dialog for the Twido Extension Element, showing 'Name: Twido Extension', 'Type: Remote link', and 'Address: 1'.
- Bottom Right:** The 'Configuration' dialog for the port, showing 'Port 1', 'Type: Remote link', and 'Address: 0 (Master)'.

Programa de troca de dados no Remote Link Master:



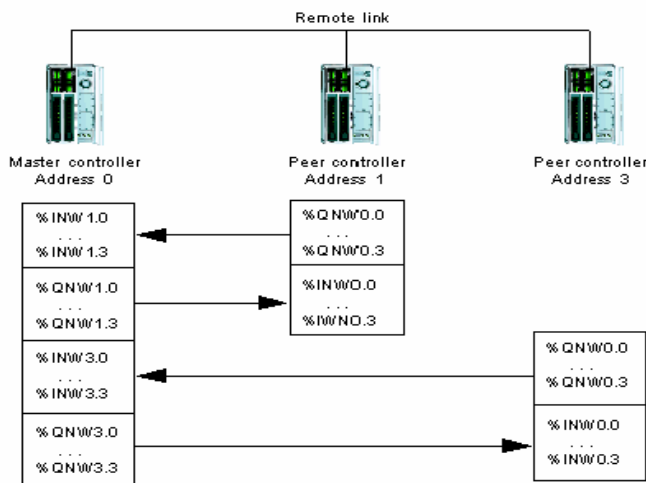
O formato do endereçamento formando por:

Peer controller	Run mode is independent of the Master's.	%INW and %QNW A maximum of 4 input words and 4 output words can be transmitted to and from each peer.
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Peer Controller Data Access

To communicate with peer controllers, the master uses network words %INW and %QNW to exchange data. Each peer on the network is accessed by its remote address "j" using words %INWj.k and %QNWj.k. Each peer controller on the network uses %INW0.0 to %INW0.3 and %QNW0.0 to %QNW0.3 to access data on the master. Network words are updated automatically when the controllers are in Run or Stop mode.

The example below illustrates the exchange of a master with two configured peer controllers.



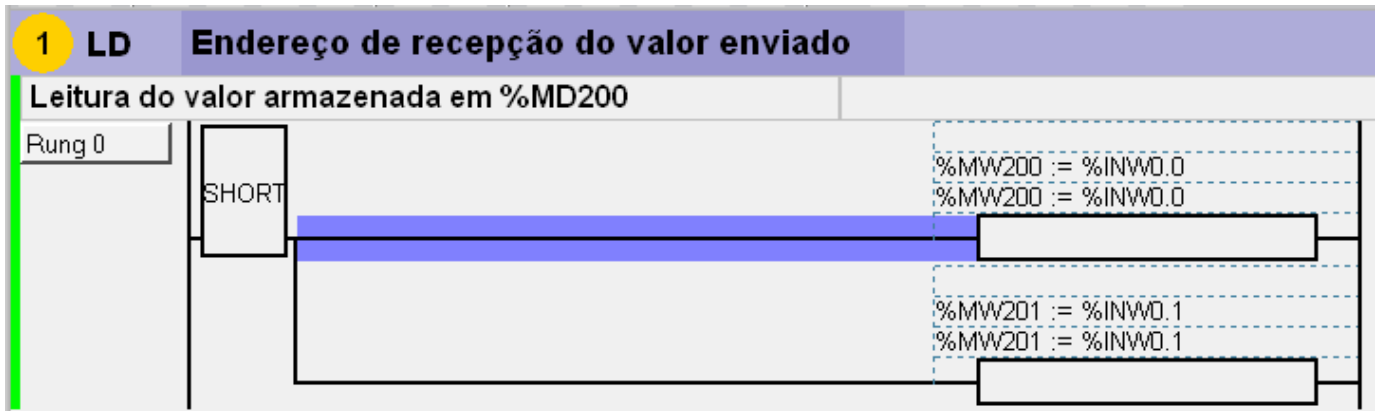
There is no peer-to-peer messaging within the remote link. The master application program can be used to manage the network words, in order to transfer information between the remote controllers, in effect using the master as a bridge.

Configura-se a porta **TWDNOZ485T** com o endereço definido anteriormente:

The image shows the configuration process for the Twido Master Controller's RS485 port. The hardware configuration panel on the left shows the RS485 port with a red question mark, indicating it needs configuration. Two configuration dialog boxes are shown on the right:

- The first dialog box, titled "Configuration", shows the "Name" as "Twido Master Cc". Under "Protocol", the "Type" is set to "Remote link" and the "Address" is set to "0 (Master)".
- The second dialog box, titled "Configuration", shows "Port 2" configuration. Under "Protocol", the "Type" is set to "Remote link" and the "Address" is set to "1".

Programa de troca de dados no Remote Link Slave:



Através do recurso **Animation Tables**, em modo *On-Line*, podemos transpor o valor e visualizar o intercambio do endereço **%MD10**.

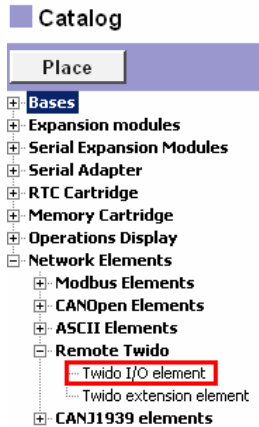
	Us	Address	Symbol	Current	Retained	Format
1	<input checked="" type="checkbox"/>	%QNW1.0		4464	0	Decimal
2	<input checked="" type="checkbox"/>	%QNW1.1		1	0	Decimal
3	<input type="checkbox"/>	%MD10		70000	0	Decimal
4						

O endereço **%MD10** (32 bits) é formado por **%MW10 + %MW11** (16 bits). Analogamente, o endereço de recepção Twido Remote Link Slave é **%MD200**.

	Us	Address	Symbol	Current	Retained	Format
1	<input type="checkbox"/>	%MD200		70000	0	Decimal
2	<input checked="" type="checkbox"/>	%INWD.0		4464	0	Decimal
3	<input checked="" type="checkbox"/>	%INWD.1		1	0	Decimal
4						

B) Twido I/O Element (Remote I/O): Utiliza a expansão de I/O do Master Controller e não possui aplicação independente.

A partir do catálogo de configuração, substituir no Remote Link Slave por Twido I/O Element e utilizar o mesmo para extensão de entradas e saídas discretas incorporados no controlador.



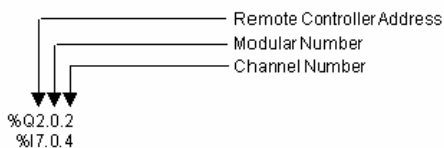
O formato de endereçamento é formado por:

Remote I/O Data Access

The remote controller configured to be a remote I/O does not have or execute its own application program. The remote controller's base discrete inputs and outputs are a simple extension of the master controller's. The application must only use the full three digit addressing mechanism provided.

Note: The module number is always zero for remote I/O.

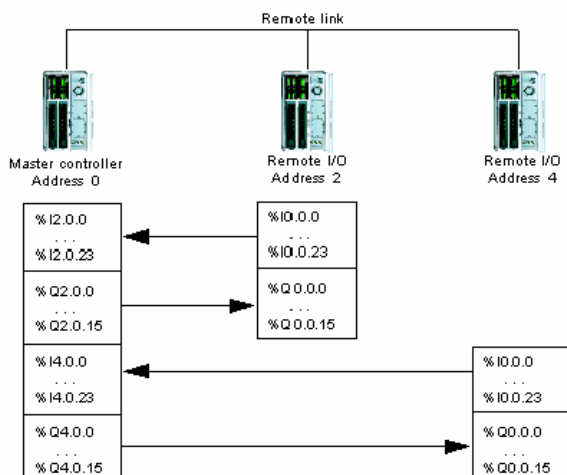
Illustration



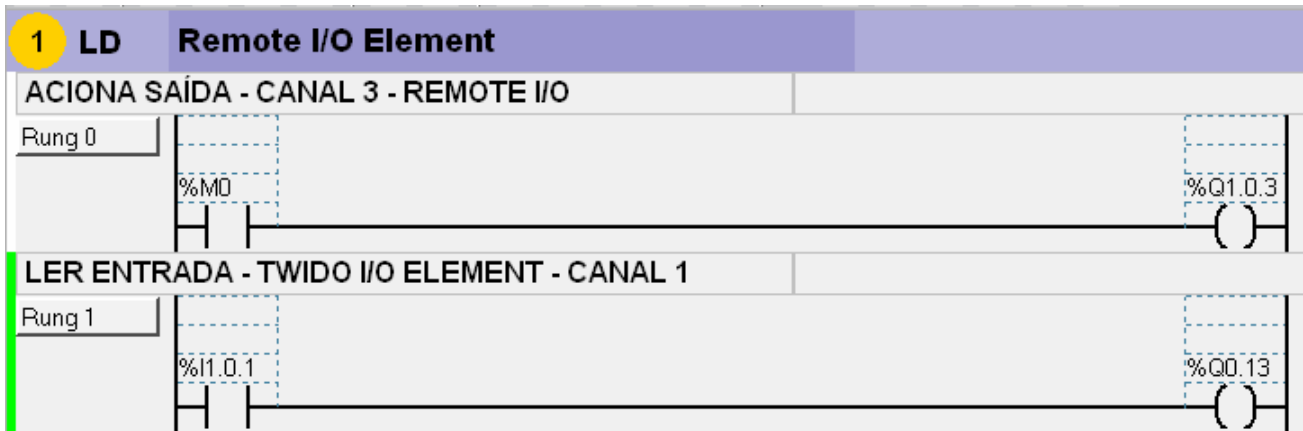
To communicate with remote I/O, the master controller uses the standard input and output notation of %I and %Q. To access the third output bit of the remote I/O configured at address 2, instruction %Q2.0.2 is used. Similarly, to read the fifth input bit of the remote I/O configured at location 7, instruction %I7.0.4 is used.

Note: The master is restricted to accessing only the discrete I/O that is part of the remote's local I/O. No analog or expansion I/O can be transferred, unless you use peer communications.

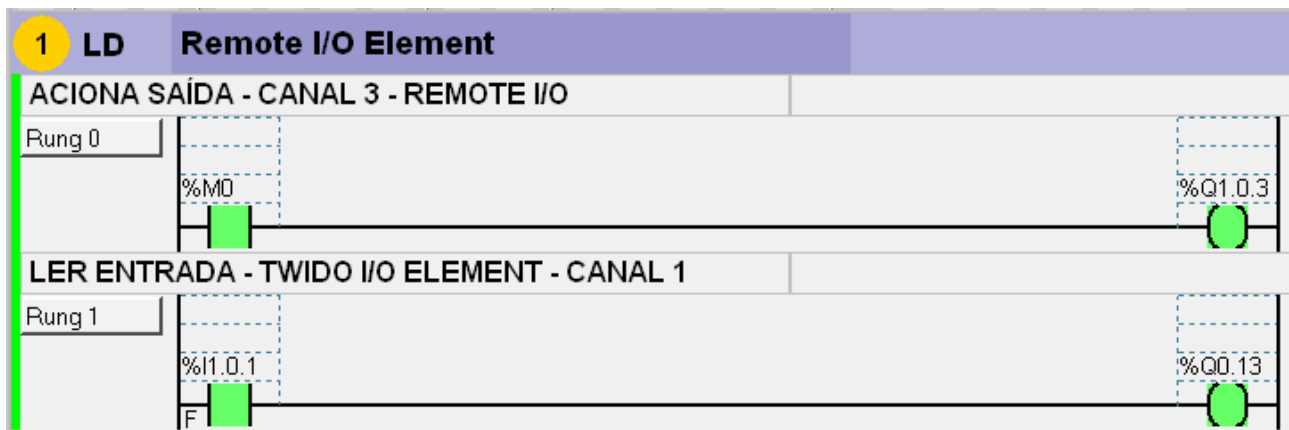
Illustration



Programa de troca de dados no Remote Link Master (Remote I/O):



Forçando as entradas e saídas, temos:



Pelo recurso **Animation Tables**, verifica-se as mudanças On-Line:

		Us	Address	Symbol	Current	Retained	Format	
1		<input checked="" type="checkbox"/>	%M0		1	0	Decimal	<div style="border: 1px solid gray; padding: 5px; text-align: center;"> Animate the program Manage animation tables Check PLC </div>
2		<input type="checkbox"/>	%Q1.0.3		1	0	Decimal	
3		<input type="checkbox"/>	%I1.0.1		F 1	0	Decimal	
4		<input type="checkbox"/>	%M1		1	0	Decimal	
5								