# eLinx<sup>™</sup> PROGRAMMING

Category: Registers & Endpoints Type: eLinx Interpreter Issue: Programming



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### Introduction

This document will walk you through how to properly program your eLinx<sup>™</sup> Interpreter<sup>®</sup>.

**PLEASE NOTE**: eLinx Technician Version 1.3.0 software should be used when programming.

#### Installation:

After installing eLinx Technician software (*See Figure 1*), plug in the eLinx Programmer (*See Figure 2*) to your computer. After a few seconds the programmer will begin installing the correct driver. You are now ready to being using eLinx Technician software.

eLinx Technician - Arad Technologies	S				III ● III III III III III III III III I			
Unit Control Catalog Editor Bench - After Production								
Read Program T2/COM Port COM1 Communication T2/Program 1	Export Calc Actions 15 Useful 15 About 1	2						
🗇 eLinx Information			Programming Status					
			Command	Value				
Program meter data using catalog		• C						
General Information								
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CW Read	No Decimal Point	Flow Sampeling Time 0						
Factor	<ul> <li>First Decimal Point</li> </ul>	Full-screen Snip						
Meter Type	Second Decimal Point	No Decimal Point						
Version	Third Decimal Point	First Decimal Point						
Status	AF     None	© L∕s						
✓ Clear Status	© CUFT	◎ GPM						
	© GAL	M3/h						
the Dirich Dirich	M3	None						
	00	00 51 0 11						
Number of digit to show 1	Meter Gear-Ratio	Flow -Ratio						
Start From digit 1 🚖	✓ Program Gear-Ratio	✓ Program Flow-Ratio						
	Enter Value Enter Value							
main Display Units				0	)%			
⊙ x 1 ⊙ x 10 ⊙ x 100 ⊙ x 1000			Total Time	(6	er)			
IR Rotation Flag			Total Commands	(3				
			Test Results					
			rest resurts					

Figure 1: eLinx Technician Software



Within the **Unit Control** menu located in the top left-hand corner of your screen, you will find the Communication Port (**COM Port**) command (*See Figure 3*). Please ensure the correct *COM Port* is selected for the eLinx Programmer. If the correct *COM Port* has not been selected, you will need to manually locate this communication port within the Device Manager menu of your computer.



Figure 3: COM Port

#### Read & Write:

The **Read** and **Write** tabs (*See Figure 4*), located within the **Unit Control** menu are the two main tabs you will be using.



Figure 4: Read & Write Tabs



## Programmability Fields:

The programmable design of eLinx Interpreter allows this register to work on most any meter and connect to most any AMR/AMI system with common bayonet-style register housing.

Please use *Figure 5* below as a reference for the Programmability Fields section of this document.



## Figure 5: eLinx LCD Display

Below you find a list of fields to take note of (See Figure 6).



Figure 6: Programmability Fields



- 1. CW Read Reading to be programmed (If new installation set to "0")
- 2. Number of digit to show Number of digits to be shown (One to nine digits)
- 3. **Start From digit** Starting digit
- 4. **Main Display Units** Reading range to be used (*Four multiplier options available*)
- 5. **IR Rotation Flag** Direction the measuring chamber spins with water flow (*CCW*-*Normal (MM) is most commonly used for Master Meter water meters*)
- 6. **Meter Decimal Point** Decimal place value to be shown (*Also known as the Unit of Measure. See Figure 5*)
- 7. Flow Decimal Point Decimal place value to be shown in the Rate of Flow (Also the unit of measure for water flow) window
- 8. Meter Gear-Ratio Found in 3G Tech NET\*\*
- 9. Flow Ratio Gear ratio of the meter (Gallons or Cubic Feet)

**PLEASE NOTE**: In order to view Rate of Flow, the desired unit of measure must be entered in the Meter Gear Ratio field (*Gallons is the most common Unit of Measure used*).

After all parameters have been selected, attach the eLinx Programmer to the eLinx Interpreter. There are multiple ways to attach to eLinx. Please see connectivity options listed below:

- 1. Sensus TR/PL Sensor w/Wire
- 2. Itron Inline Connector
- 3. Nicor Connector
- 4. Bare Wires

Once connected click on the **Write** tab, located in the **Unit Control** menu. You are now able to program all parameters selected for your eLinx Interpreter. You can verify programming parameters within the **Programming Status** window, located to the right of the **eLinx Information** window (*See Figure 7*).

Unit Control Catalog Editor Ben	ch - After Production				
Read COM Port Wri COM1 Wri Program Ty Communication Ty Progr	te Export Calc Actions r; Useful r; At	D Nout 15			
eLinx Information			Program	ning Status	>
			Command	Value	
Program meter data using catalog		- C	UnitID	000031190040	
			Version	1.8	
General Information	.00 Decimal Point Information		Meter-Status	NOT ok	
•	÷.0		Meter-Type	Water	
Meter ID	23 Meter Decimal Point	Stand Point Point	Factor	1	
CWReed			Step-Index-Value	10	
CW Read	No Decimal Point	Flow Sampeling Time 0	Meter Desired Paint	U.I Ma Danimal Reist M2	
Factor	First Decimal Point		Main-Displayed Inite	v100	
Mater Tune	Second Decimal Point	No Decimal Point	Row Decimal Point	First Dacimal Point M3	
meter type	Third Decimal Point	First Decimal Point	Row-Sampeling-Ti	5	
Version			Row-Index-Value	10	
61.1			Bow-Batio	6000	
Status	AF      None	© L/s	; Rotation-Rag	0	
Clear Status	CUFT	OPM	Number-Of-Digits	8	
	6 GAL	M3/h	Start-From-Digt	0	
	0.112	None	CW-Extended-Read	0	
123 Digits Display	e mo	() None	CW Display	0	
Number of digit to show 1	& Meter Gear-Ratio	5.8 Flow -Ratio			
Start From digit 1	Program Gear-Ratio	Program Flow-Ratio	A Working Broger		
W Main Disalau Haita	Enter Value	Enter Value	United and the second s	,	100%
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⊙ x 1 ⊙ x 10 ⊙ x 100 ⊙ x 1000			Total Time	00:00:02.8130152	(sec)
			Total Commands	8 of 8	
SP IK Kotation Hag			Test Results		
💿 CCW-Normal (MM) 💿 CW					

Figure 7: Programming Status



\*\*To locate the **Meter Gear-Ratio** for your eLinx Interpreter follow the steps below within 3G Tech NET:

- 1. Select the **Interpreter** box under the *Select Unit Types* menu.
- 2. Double-Click on **Interpreter II Properties** located in Set menu, directly to the right of the Select Unit Types menu.
- 3. Select the correct **Brand**, Size (*Diameter*) and Model (*Catalog*) meter you are installing. Once preferences have been selected the *Gear Ratio* will appear.
- 4. Enter this value within the **Meter Gear-Ratio** field of eLinx Tech to continue programming your eLinx Interpreter.