

## Description

The Sensus UniPro Software tool provides programming, data log downloading, and accuracy testing, reporting and error log capabilities when used with Sensus water metrology products. A UniPro communicator device is used with the Sensus electronic registers on the following products:

- iPERL
- Electronic Register
- ICE registers
- ICE-Opto registers
- OMNI R, T, C, F
- accuMAG



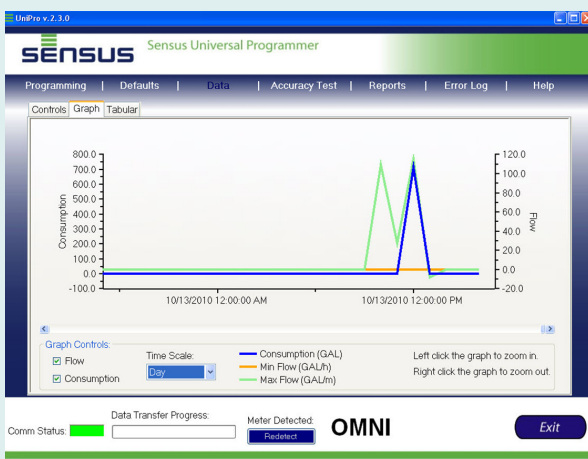
For PC use, the communicator is supplied with a USB cable end connector. For AR5500 handheld use, the communicator is supplied with an RS232 cable end connector.

The AutoGun is not applicable with the PC based solution.

## Features

### PROGRAMMING CAPABILITIES

Parameters	Definition	Meter/Register						
		ICE	ICE-Opto	Electronic Register	iPERL	OMNI R	OMNI T, C, F	accuMAG
Customer ID	Register ID sent for AMR/AMI	X	X	X	X	X	X	X
Programmable Text	Customer programmable information	X	X	X	X	X	X	X
AMR Digits	Digits sent for AMR/AMI	X	X	X	X	X	X	
Unit of Measure	Unit of Measure			X	X	X	X	
Rate of Flow Unit	Amount of water that flows over a given rate of time			X				
Alarm Save Duration (Days)	Number of days to save an alarm notification				X			
Leak Duration (Hours)	Number of consecutive hours flow must occur for a leak to be detected				X			
Datalog Interval	Time Interval for data log information				X			
History Masks	Used to determine what events should be logged				X			
Alarm Masks	Used to determine what alarms should be logged				X			
Pulse Output	Used to select the wheel to trigger the pulse output signal						X	
Display Mode	Upon initial lid opening to view AMR digits or totalizer (all 8 digits)					X	X	



### DATA LOG CAPABILITIES

The iPERL and OMNI meters capture interval data. The data is downloaded via the UniPro software tool. The data can be viewed in a graphic or tabular layout.

Interval Data Collected	Definition	Meter/Register	
		iPERL	OMNI T, C, F
Consumption	Volume of water passed through the meter during the measuring interval	X	X
Maximum Flow	Peak flow of water passed through the meter during the measuring interval	X	X
Minimum Flow	Lowest flow of water passed through the meter during the measuring interval		X

**REPORTING CAPABILITIES**

Parameters	Definition	ICE	ICE-Opto	Electronic Register	iPERL	OMNI R	OMNI T, C, F	accuMAG
Meter Programming	Date, time and specific meter information for programming parameters	X	X	X	X	X	X	X
Data logging	Tabular view of the data log				X		X	
Accuracy Testing	Accuracy performance report						X	
Alarms	List of the alarms that are reported, active and saved				X			
History	Date, time, event history and alarms				X			
Lifetime	Meter age, lifetime used, date of manufacture, projected end of life				X			

**ACCURACY TESTING CAPABILITIES**

The Accuracy Testing feature in UniPro provides utilities a step by step procedure to collect information during an OMNI meter accuracy test. At the conclusion of the accuracy test, a performance report is provided.

Company Name: Sensus		Date: 10/19/2010	
Customer ID: ABC Store		Factory ID: 69851188	
Current AMR: 00001741 Gallons			

Sensus								
SINGLE REGISTER METER PERFORMANCE REPORT								
SERIAL#:	69851188	SIZE:	1.5" - 3"	CUSTOMER:				ABC Store
DATE:	10/19/2010	TYPE:	TBZE	METER LOCATION:				1 A1A, Miami, FL
READING (BEFORE):	1693	READING (BACK IN SERV):		1741				
METER REGISTRATION:	Gallons	TESTER RATE UNITS:		GPM				
		TESTER REGISTRATION:		Gallons				

METER UNDER TEST								
METER	FLOW RATE (GPM)	Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)	TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
TOTAL	160	30.88	0	30.88		30.88	99.5	99.5%

METER UNDER TEST								
METER	FLOW RATE (GPM)	Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)	TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
TOTAL	1	10.77	0	10.77		10.77	100.6	100.6%

METER UNDER TEST								
METER	FLOW RATE (GPM)	Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)	TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
TOTAL	0.25	6.55	0	6.55		6.55	98.5	98.5%

TESTING PERFORMED BY:	Jack	DATE:	10/19/2010
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