# Application Notes: Intech GP-HR Logger OmniLog Flow Wizards. Flow meter logging made easy using the Intech Omnilog Flow Wizards.

Two new wizards were added to OmniLog Version 1.36. One simplifies the <u>setup</u> of flow sensors and the other provides a range of <u>reporting</u> options for flow data.

•The Flow Setup Wizard is used to configure a logger for a variety of different

- inputs from flow meters as follows:
- Pulse
- Analogue including 4~20mA, 0~10V, 0~100mV

Pump run contact. A fixed flow rate is assumed when pump is running.

+Volume can be totaled in litres, Cubic Meters, UK Gallons, US Gallons.

Each GP-HR Logger is a 4 channel logger, and will accept up to 3 flow meters with an analogue output, plus 1 flow meter with a pulse output or Pump Run Contact. (Note: Pump Run uses the digital channel plus 1 analogue channel)

The Flow Wizard leads the user through a step by step procedure for selecting the required flow units.



The **Flow Report Wizard** is used to generate Hourly, Daily, Weekly and Monthly totalised reports of flow data from loggers that have been set up using the Flow Setup Wizard.



	🖉 Flow Setup Wizard
If we select a Pulse sensor the wiz allow us to select a Pulse input ch the logger.	Event Setup Wizard working on GP-HR 0202050         Step 2 ~ Select Logger Channel         Channel 4 has been selected subornatically. It is the only Fast Pulse input on a GP-HR         Input Channel 4 Pulse         Input Channel 4 Pulse
Flow Setup Wizard Flow Setup Wizard working on GP-HR 0202050 Step 3 ~ Enter Sensor Units What Volume Units does the flow sensor use ? I the C Uk Gallon C Uk Gallon C objec Meller	Help Cancel << Back Nax >> Finish
	Then we enter the volume units use by the sensor.
Help         Cancel         << Rack	Flow Setup Wizard
Image: Step Setup Wizerd         Image: Step Setup Wizerd working on GP-HR 0202050         Step 5 ~ Enter Logger Units Required         What Volume Units would you like to appear on Reports and Graphs 3	Help Cancel << dack Next>> Fimeb
C Litre C UK Gallon C US Gallon C Cubic Meler	Next we enter the Volume units that we want to appear on reports and graphs.
Help Cancel << Rack Next >> Firish	Flow Setup Wizard Flow Setup Wizard working on GP-HR 0202050 Step 6 The Wizard is now rearly to send your settings to the logger. Press Finish th continue [These are the settings thatyou have selected: Flow Bensor Type: Pulse Flow Sensor Flow Bensor Channel Input Channel 4 Pulse How Bensor Pulse Units: Child Sensor 4 Pulse How Sensor Pulse per unit: 5 pulses per Litre Flow Bensor Pulse Market Market
Finally we check that all details ha entered correctly and press the Finis The Wizard then sets up the Logg	ive been sh button. er.
2	Help Cancel ++Back Nod+- Finion

### The Logger can now be started and Flow data collected



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The logger can now be used in the normal way to collect data. Data can be downloaded and displayed in the normal way. Values, Statistics and Graph views will show data in the units selected in the setup wizard.





Once data has been downloaded the Flow Report Wizard can be used to generate a range of totalised flow reports. The Flow Report Wizard is selected from the Tools Menu

🖣 Flow Report Wizard: testdds

The Flow Report Wizard is used to select the Start and Finish Time of the report, the reporting period, the channel, the units for totalised Volumes and the type of totaling.

Report Start Date/Time	Reporting Period	
18/03/2001 00:00:00	C Hourly	
Report Finish Date/Time	Time C Daily © Weekly 0:00	
Report Channel	Units required for Totalised Volumes	
Flow It/hr:	C Litre	
Accumulated Totals Period Totals	C UK Gallon C US Gallon C Cubic Meter	
Preview Print	Cancel	

## **Flow Meter Connections Examples**





#### **Drawing 3**

Example of Flow Meters with 4~20mA output where the 4~20mA loop is being driven by the Flow Meter







#### **Drawing 6**

Example of connection to the "Pump Run Contact" using the "ACM-PS,20a,20a" Logger input cable to determine flow based on pump run time. (Standard = 230v AC. Other AC voltages and frequencies available on request.)



Pump run contact

Two 4~20mA flow signals can also connected to the logger as per drawing 3 and 4, and run concurently.



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