



GTEC UPS MODEL:

SATURN 10-200 kVA – SIRIUS 10-120 kVA

Addendum UCOM GP
GpHistory – History Analyzer
GpRealtime – Status Analyzer
Version 1.5.3

SERVICE DOCUMENT

INTRODUCTION

This manual describes the new features of GpHistory (History Analyzer) and GpRealtime (Status Analyzer) introduced in version 1.5.3. Therefore it doesn't replace but complements what is described in the manual UCOM RM900 Rev01 GP.

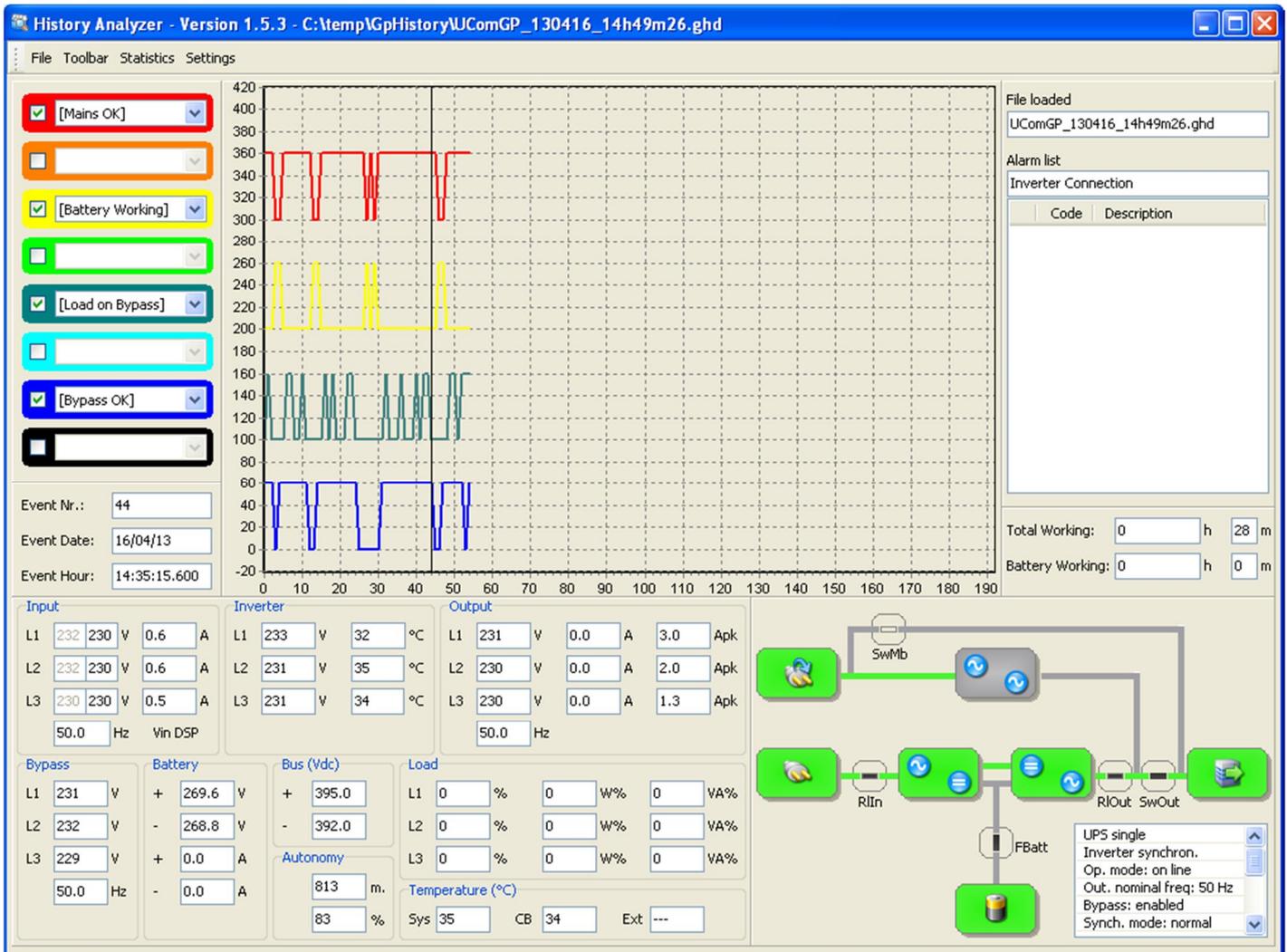
In order to use all the features described in this manual, it is necessary that the UPS has uC firmware version 02.21 or higher.

Symbols used in this manual:

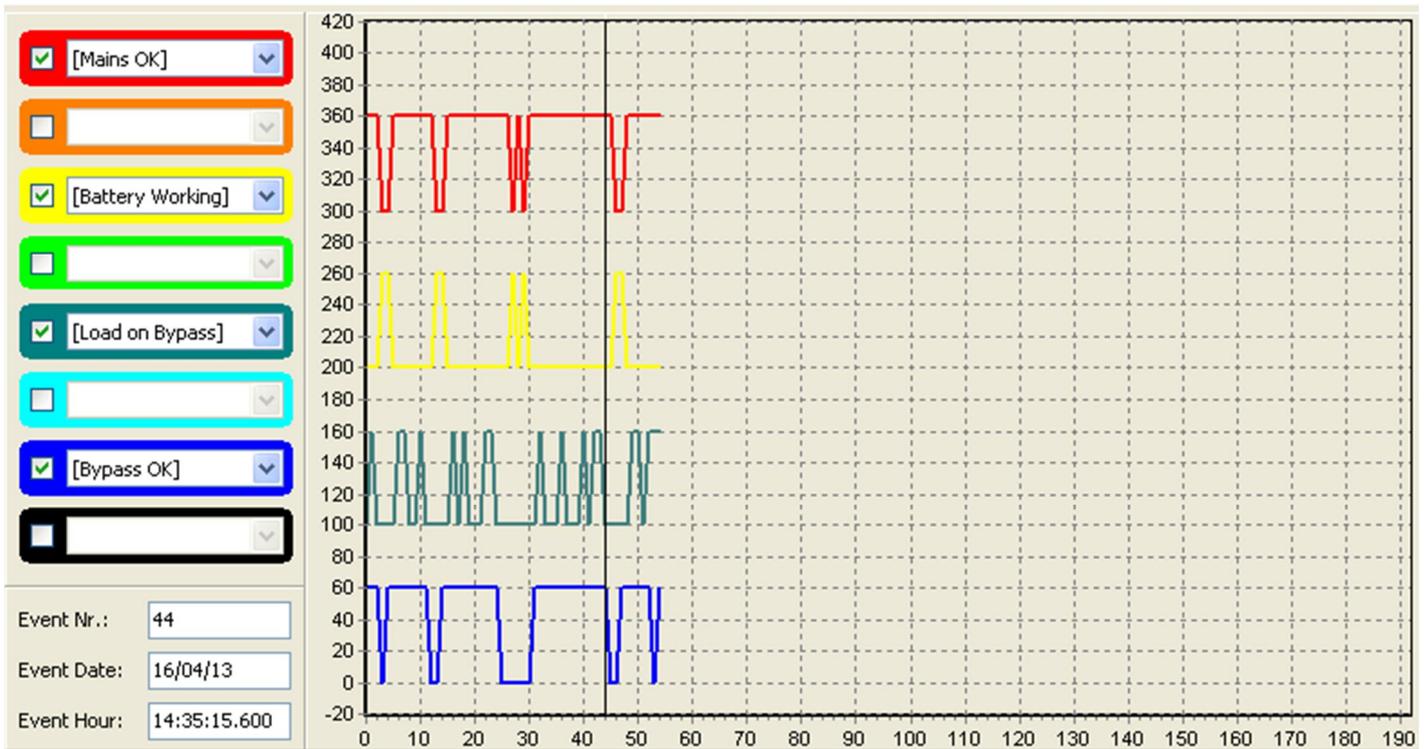
- | | | |
|--|-------------|--|
|  | Danger | Indicates information that must not be ignored.
Failure to follow these indications may cause serious damage to the UPS, the batteries or the load. |
|  | Warning | Indicates important information.
Failure to follow these indications may result in UPS malfunctioning. |
|  | Information | Provides notes and useful suggestions for the User. |

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GPHISTORY (HISTORY ANALYZER) VERSION 1.5.3



GRAPHIC TRACES OF LOGIC STATES



It is possible to visualize on the chart the following logical traces (Low - High):

- Mains OK → Input mains NOT present ↔ Low@300
Input mains present ↔ High@360
- Battery Working → Working by mains ↔ Low@200
working by batteries ↔ High@260
- Load on Bypass → Load powered by inverter ↔ Low@100
Load powered by bypass line ↔ High@160
- Bypass OK → Bypass line unavailable (out of range) ↔ Low@0
Bypass line available ↔ High@60

 In the selection menu, the logic traces are indicated in square brackets to distinguish them from other variables.

ALARM LIST

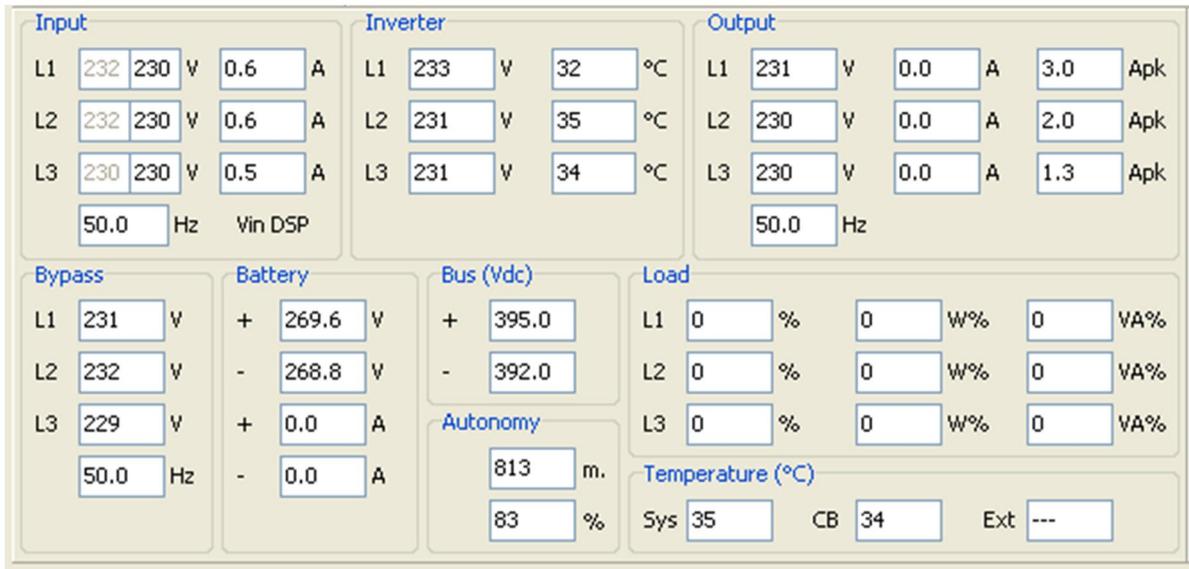
File loaded	
UComGP_130416_14h49m26.ghd	
Alarm list	
Inverter Connection	
Code	Description

Above the alarm list, you can find a field that describes the type of event that triggered recording.



Only for UPS with uC firmware version 02.21 or higher (with previous versions, the field will left blank).

INPUT, INVERTER AND BYPASS VOLTAGES

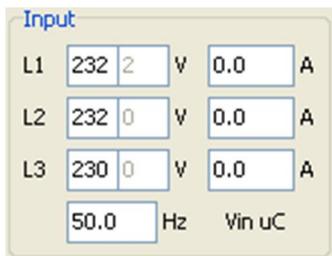


Input

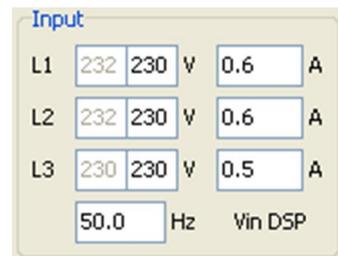
The UPS always makes the voltage reading before and after the input relay. The value considered less significant, is shown in gray .

Only for UPS with uC firmware version 02.21 or higher (with previous versions, one of the two the fields will left blank).

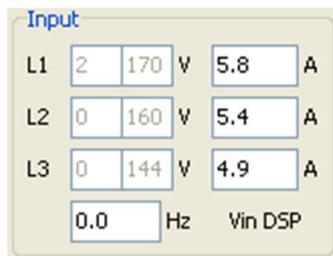
Input relay open: it is used the measurement taken by uC before the relay (Vin uC).



Input relay closed: it is used the measurement taken by DSP after the relay (Vin DSP).



In case that a zero frequency input is detected (mains failure), both measures are shown in gray to indicate that the values may not be real (residual voltage on the UPS input capacitors and on circuits reading).



Bypass

In case that a zero frequency bypass is detected (bypass line failure), the measures are shown in gray to indicate that the values may not be real (residual voltage on capacitors and on circuits reading).

Inverter and Bypass

The measurements of the inverter voltage are shown in gray to indicate values not real because they are not congruent with the UPS status.

For example, with inverter off you may see the values of the residual voltage on the output capacitors of the inverter and on circuits reading.

EVENT HOUR

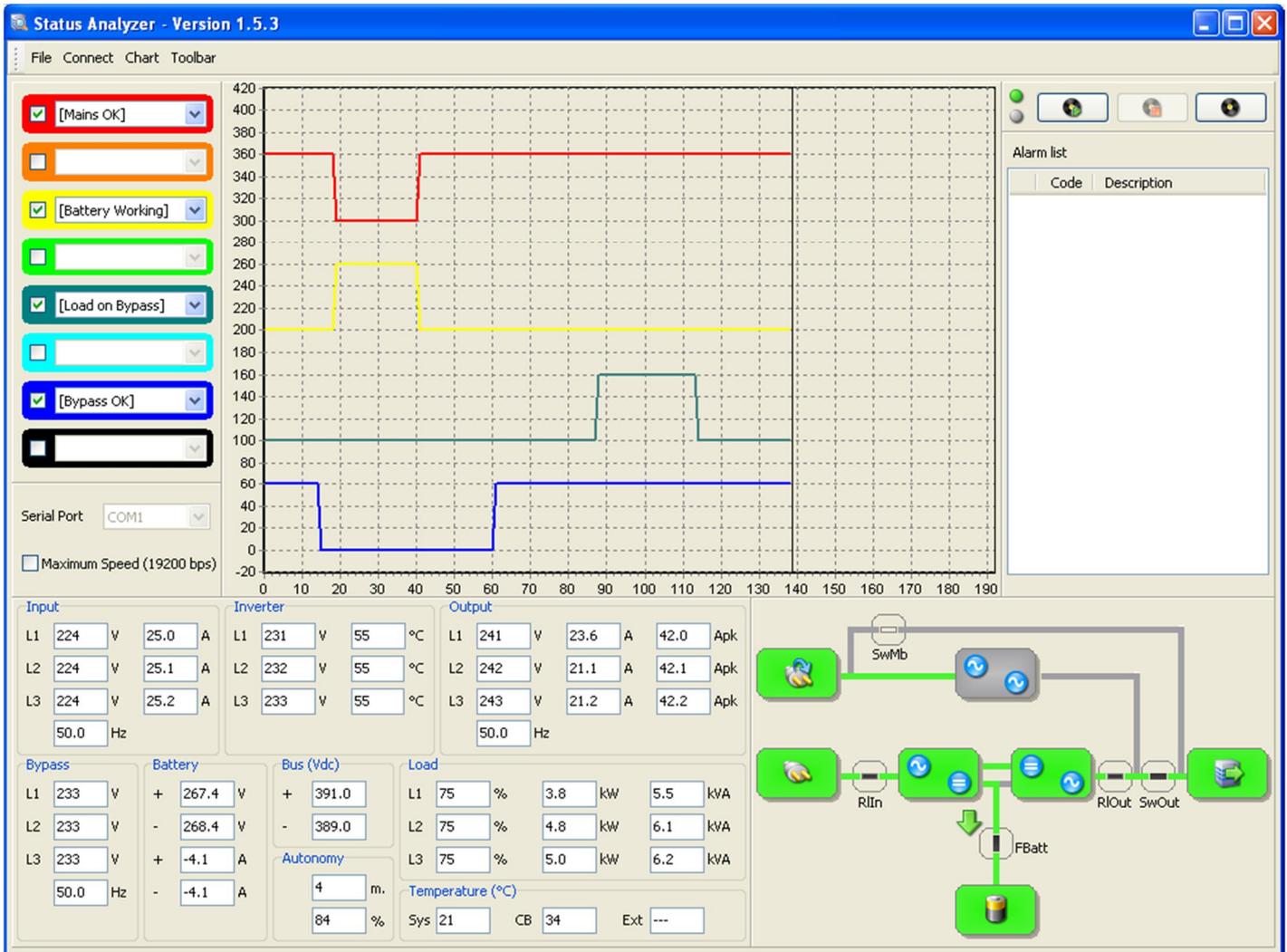
Event Nr.:	<input type="text" value="44"/>
Event Date:	<input type="text" value="16/04/13"/>
Event Hour:	<input type="text" value="14:35:15.600"/>

In addition to hours, minutes and seconds, milliseconds at which the event occurred are also reported (20ms resolution), so you can more easily distinguish events recorded in the same second.



Only for UPS with uC firmware version 02.21 or higher.

GPREALTIME (STATUS ANALYZER) VERSION 1.5.3



GRAPHIC TRACES OF LOGIC STATES

It is possible to visualize on the chart the following logical traces (Low - High):

- Mains OK → Input mains NOT present ↔ Low@300
Input mains present ↔ High@360
- Battery Working → Working by mains ↔ Low@200
working by batteries ↔ High@260
- Load on Bypass → Load powered by inverter ↔ Low@100
Load powered by bypass line ↔ High@160
- Bypass OK → Bypass line unavailable (out of range) ↔ Low@0
Bypass line available ↔ High@60

In the selection menu, the logic traces are indicated in square brackets to distinguish them from other variables.

