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PROVIEW/R RUNTIME

User's guide and object descriptions

Revision:	Date	Name	Comment
1.0	1999-12-10	Hans Werner	First version

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1 Introduction

The Run Time concept in Proview is a way to standardize the measurement of running time for different machines.

1.1 RunningTime

The RunningTime object executes under the PLC. It uses a Boolean Input, and measures the time and the running time for the signal.

All measured times are stored in the object. Times are stored as number of hours (integer) and number of seconds up to 1 hour (float). There are measurements for Total Time, Total running time, Trip time and Trip running time. We also note number of starts for each period. The Running time as part of the total time in percent is calculated for both total and trip.

There is also the possibility to reset the Trip measurement in each object. The values from the last trip measurement is saved in the object as OldTrip.

We also note the time for the last start for the signal, and the time for the last ResetTrip.

There should always be an object backup for each RunningTime object. The Backup object can be connected to the ‘sta’-output from the RunningTime object.

2 Object Description

Attributes

Running **Input**

Graph Name: run

Type: *pwr_tBoolean*

Input signal

Start **Output**

Graph Name: sta

Type: *pwr_tBoolean*

Output signal is True for one cycle when we detect edge of Running input.

Output pin is mainly used for connection of Backup-object.

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Description

Type: *pwr_tString80*

Documentation only

TripReset

Type: *pwr_tBoolean*

Used to move Trip data to OldTrip, and to reset all Trip data.

StartTime

Type: *pwr_tTime*

Date and time for latest edge of input

ResetTime

Type: *pwr_tTime*

Date and time for latest TripReset

TotalNOfStarts

Type: *pwr_tUInt32*

Total number of detected starts.

TotalRunHours

Type: *pwr_tUInt32*

Total number running hours.

TotalRunSeconds

Type: *pwr_tFloat32*

Total number of running seconds up to 1 hour.

TotalHours

Type: *pwr_tUInt32*

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Total number calendar hours.

TotalSeconds

Type: *pwr_tFloat32*

Total number of calendar seconds up to 1 hour.

TotalUsage

Type: *pwr_tFloat32*

Percent RunningTime compared to time.

TripNOfStarts

Type: *pwr_tUInt32*

Total number of detected starts since Trip Reset.

TripRunHours

Type: *pwr_tUInt32*

Total number running hours since trip reset.

TripRunSeconds

Type: *pwr_tFloat32*

Total number of running seconds since trip reset, up to 1 hour.

TripHours

Type: *pwr_tUInt32*

Total number calendar hours since trip reset.

TripSeconds

Type: *pwr_tFloat32*

Total number of calendar seconds since trip reset, up to 1 hour.

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TripUsage

Type: *pwr_tFloat32*

Percent RunningTime compared to time.

OldTripNOfStarts

Type: *pwr_tUInt32*

Total number of detected starts between last Trip Resets.

OldTripRunHours

Type: *pwr_tUInt32*

Total number running hours between last trip resets.

OldTripRunSeconds

Type: *pwr_tFloat32*

Total number of running seconds between last trip resets, up to 1 hour.

OldTripHours

Type: *pwr_tUInt32*

Total number calendar hours between last trip resest.

OldTripSeconds

Type: *pwr_tFloat32*

Total number of calendar seconds between last trip resets, up to 1 hour.

OldTripUsage

Type: *pwr_tFloat32*

Percent RunningTime compared to time.

SaveTime

Type: *pwr_tTime*

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Internal variable for calculation of time since last execution.

Date and time or uptime depending on OS.