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R. FUESS

For counting of impulses:

Data Logger Type Tinytag TGRP-1200

The data logger Tinytag TGRP-1200 together with the Precipitation Pulse Transmitter RE2 serves as a rain recorder with long recording intervals. The data logger is supplied by a 3.6 V Lithium battery which serves up to 5 years. Its serial Interface is within easy reach by a connector at the bottom of the Precipitation Pulse Transmitter RE2 without opening the housing. Its wide temperature range from -40°C up to $+85^{\circ}\text{C}$ makes it usable for quite all over the world. The Tinytag Explorer Software (working under Windows) helps you to start or stop the logger and to download the data from it. It shows you the data as a diagram. On the other hand, the files including the data can be imported by EXCEL.

Specifications

Input

Range	: 0...255 counts / interval
'Divide by' counter	: 1...255
Input type	: Digital, or volt-free switch contact
Max. Error	: +/- divisor / 2

Digital

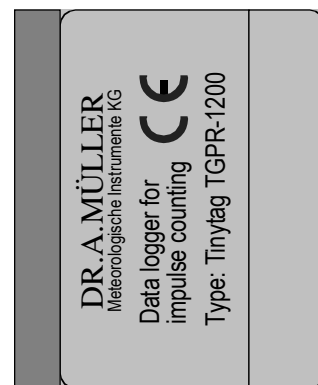
Low level	: $-0.5\text{V}...+1\text{V}$
High level	: $2.5\text{V}...10\text{V}$
Min pulse width	: $150\ \mu\text{s}$ (at 5V)
Min pulse separation	: $150\ \mu\text{s}$ (at 5V)
Edge detection	: High – Low transition

Contact

Type	: Normally Open (with Minimal debounce)
Min closed time	: $150\ \mu\text{s}$
Min open time	: 0.5 ms
Edge detection	: Open to closed

Data Storage

Memory Size	: 16k (Non – volatile)
No. of Readings	: 16000 (approx)
Resolution	: 8 bit
Delayed Start	: Relative / Actual up to 45 days
Stop options	: When Full After n Readings Never (Wrap around)
Logging Interval	: 1 sec to 10 days
Offload	: While stopped or when logging in minute multiples
Alarms	: Two, fully Programmable
Functional Range	: $-40^{\circ}\text{C}...+85^{\circ}\text{C}$
Battery Life	: Up to 5 years



Accessory's

For data transfer	: Interface cable TGPR-C
For power supply	: Lithium battery 3.6V Size 1/2 AA

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