

## GPStoDCF V1.05

### Output:

Blue LED is ON → output is in LOW(GND) state

Red LED is ON → output is in HIGH(Vcc) state

### Sequence after Power-UP (Normal function)

1. Power-UP
2. GPS failure – as long as GPS module finishing initialization (typ.5sec)
3. NO satellite – as long as received signal from satellite is OK (typ.minutes)
4. Synchronization – from OK received satellite signal to start send DCF (< 1min)
5. Time sending

Function	Dip switch 1-8								Output
	SW.1	SW.2	SW.3	SW.4	SW.5	SW.6	SW.7	SW.8	
<b>Normal function*</b>									
Set time to UTC	OFF	OFF	OFF	OFF	OFF	OFF	x	x	Time = UTC
Set time to UTC + 1hour	ON	OFF	OFF	OFF	OFF	OFF	x	x	Time = UTC + 1
Set time so UTC + 2hour	OFF	ON	OFF	OFF	OFF	OFF	x	x	Time = UTC + 2
Set time to UTC + 3hour	ON	ON	OFF	OFF	OFF	OFF	x	x	Time = UTC + 3
<b>Common function</b>	SW.1	SW.2	SW.3	SW.4	SW.5	SW.6	SW.7	SW.8	
Summer time enabled	x	x	x	x	x	x	OFF	x	Summer: Time = UTC + 1
Summer time disable	x	x	x	x	x	x	ON	x	All year: Time = UTC
Positive output	x	x	x	x	x	x	x	OFF	<u>  </u>   <u>  </u>   <u>  </u>   <u>  </u>   <u>  </u>
Negative output	x	x	x	x	x	x	x	ON	<u>  </u>   <u>  </u>   <u>  </u>   <u>  </u>   <u>  </u>
<b>Testing function**</b>	SW.1	SW.2	SW.3	SW.4	SW.5	SW.6	SW.7	SW.8	
GPS failure	x	x	x	x	x	ON	x	x	<u>  </u>   <u>  </u> 1.0s <u>  </u>   <u>  </u> 1.0s <u>  </u>   <u>  </u>
NO satellite	x	x	x	x	ON	OFF	x	x	<u>  </u>   <u>  </u> 0.5s <u>  </u>   <u>  </u> 0.5s <u>  </u>   <u>  </u>
Synchronization	x	x	x	ON	OFF	OFF	x	x	<u>  </u>   <u>  </u> 0.1s <u>  </u>   <u>  </u> 0.1s <u>  </u>   <u>  </u>
Time sending	x	x	ON	OFF	OFF	OFF	x	x	Time = virtually time ***

\* - Factory setting means setting for equipments Impuls-B (e.g. Tony, Sirius etc.) installed in region Middle Europe.

\*\* - Testing function is determined only for demonstration function GPStoDCF. Don't use in normal function!

\*\*\* - Virtually time is time starting from 12:12:00 12:12.2012