

## MEMO - DigaStudio GP I/Os

### General

DigaStudio offers you 8 inputs and outputs each. The inputs are realized as opto-coupler circuits, the outputs provide open-collector technology. The status of each input can be polled at any time from the PC software. The output status can be set for each line individually via PC or via internally defined events.

### Outputs

By parameterizing it can be defined individually, whether the status shall be set either by PC or by an internal event.

Active events are characterized by a static „low-level“ at the assigned output.

The following internal events are currently available:

EVENT No.	Description
0	OFF (permanently high)
1	Faderstart CH 1
2	Faderstart CH 2
3	Faderstart CH 3
4	Faderstart CH 4
5	Red Light 1
6	Red Light 2
7	TB TEL active
8	TB ISDN active
9	MIC MUTE active
10	RESERVE key
11	TEL HYBRID key
20	Faderstart MIC_1
21	Faderstart MIC_2
22	Faderstart MIC_3
23	Faderstart MIC_4
24	Faderstart DIG_1
25	Faderstart DIG_2
26	Faderstart LINE_1
27	Faderstart LINE_2
28	Faderstart AWS
29	Faderstart TV
30	Faderstart AV
31	Faderstart TEL
32	Faderstart ISDN
126	TEST
127	ON (permanently low)

## Inputs

By parameterizing any event may be assigned to any input.

Already configured events will be triggered by an active level (current flow) at the assigned inputs.

**The following internal events are currently available:**

Event No.	Description
0	NO EVENT (no function)
1	MIC_1 MUTE (external „cough-key“)
2	MIC_2 MUTE
3	MIC_3 MUTE
4	MIC_4 MUTE
5	LS MUTE
6	RESERVE LED ON
7	TEL HYBRID LED ON
8	EXTERNAL MONITOR SWITCH
11	OUTPUT GATE 1
12	OUTPUT GATE 2
13	OUTPUT GATE 3
14	OUTPUT GATE 4
15	OUTPUT GATE 5
16	OUTPUT GATE 6
17	OUTPUT GATE 7
18	OUTPUT GATE 8
20	RESERVE LED FLASHING (override RESERVE LED ON)
21	TEL HYBRID LED FLASHING (override TEL HYBRID LED ON)
126	TEST (transparent IN → OUT)

## Parameterizing

Parameterizing, e.g. the selection and the assignment of the available events to defined inputs or outputs is accomplished via the included software.

## Definition of further events

Basically the definition and realization of more/other events is feasible, but only after an agreement with DAVID because of additionally required extensions of the operating software (additional cost).

**Technical realization:**

2 different connectors are available for the GP I/Os:

Connector name : **REM OUTPUT**  
Connector type : D-type female 15pole  
Connector : P 35

Pin	Signalname	Remarks
1	OUT_1	open collector output 40V 20mA
2	OUT_3	open collector output 40V 20mA
3	OUT_5	open collector output 40V 20mA
4	+5V	max. 200mA
5	GND	
6	EXT_METER_LA	external level meter left +, min. impedance 10k
7	EXT_METER_RA	external level meter right +, min. impedance 10k
8	GND	
9	OUT_2	open collector output 40V 20mA
10	OUT_4	open collector output 40V 20mA
11	OUT_6	open collector output 40V 20mA
12	GND	
13	EXT_METER_LB	external level meter left -, min. impedance 10k
14	EXT_METER_RB	external level meter right -, min. impedance 10k
15	GND	

Connector name : **REM INPUT**  
Connector type : D-type male 15pole  
Connector : P 33

Pin	Signalname	Remarks
1	IN_1B	cathode input 1
2	IN_3B	cathode input 3
3	COMMON_A	Common anode for input 1..4, input current typ. 20mA
4	GND	
5	IN_5A	anode input 5, input current typ 5mA
6	IN_6A	anode input 6, input current typ 5mA
7	IN_7A	anode input 7, input current typ 5mA
8	IN_8A	anode input 8, input current typ 5mA
9	IN_2B	cathode input 2
10	IN_4B	cathode input 4
11	+5V	max. 200mA
12	IN_5B	cathode input 5
13	IN_6B	cathode input 6
14	IN_7B	cathode input 7
15	IN_8B	cathode input 8

Additionally the control signals for telephone (POTS) or ISDN-hybrids are available permanently at the corresponding telephone/ISDN connectors, independently of the configuration of the GP I/Os.

Connector name : **TELEPHONE**  
Connector type : D-type female 15pole  
Connector : P 17

Pin	Signalname	Remarks
1	GND	
3	GND	
7	GND	
8	GND	
9	GND	
11	GND	
15	TEL_HYBRID_ON	open collector output 40V 20mA

Connector name : **ISDN**  
Connector type : D-type female 15pole  
Connector : P 18

Pin	Signalname	Remarks
1	GND	
4	GND	
7	GND	
8	GND	
9	GND	
12	GND	
15	ISDN_ON	open collector output 40V 20mA