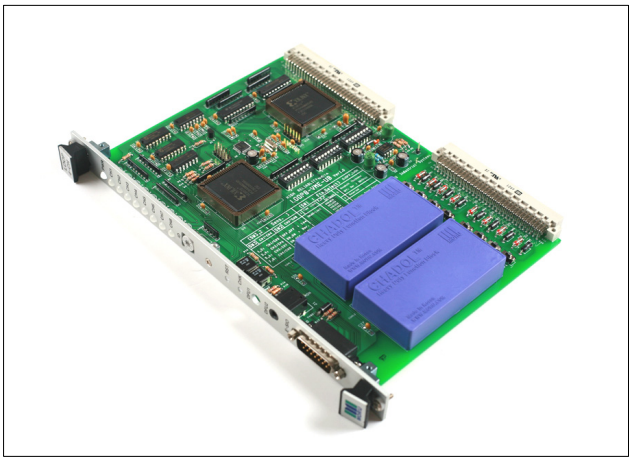
LOOP8-VME-UB

Urban purpose optimized
8 Channel Loop Vehicle Detector
for Korean Police Standard & COSMOS Standard



FEATURES

General Features

- 8ch. loop vehicle detector.
- VME BUS Backplane Interface.
- High reliable surge protection.
- Internal parameter monitoring function. (Via RS232C Async. port.)
- **Meets for korean police standard & COSMOS standard.**

Special Features

- **Hardware methode loop head status monitoring function.**
- **Automatic environment factor tracking algorithm.**
- Easy sensitivity setting.

SPECIFICATIONS

General Specifications

- **Loop CH. Count : 8ch/board**
- Sensitivity Setting : 4step
- Loop Inductance : 30-2000uH
- Backplane Interface : VME Bus.
- VME access AM code : 29h, 2Dh
  29h : Short supervisory Access mode.
  2Dh : Short non-privileged Access mode.
- Vehicle speed :1- 160Km/hour
- **Real Time Loop Head Status Monitoring**
  : Short Monitoring
  : Open Monitoring
- Operating Power (Single DC Power)
  : +5V / 800mA (Typ.)
- Operating Temperature: -34°C ~ +74°C
- Operating Humidity : 95% (max.)
- Line Isolation : 2.0KV

BUS Interface Specifications

- VME bus interface
  : 16bit short I/O mode
  (AM code 29h/2Dh)
- Base Address
  : DET. Slot #1-#8 (ID Setting : 0-7)
  ; FFFF0000h - FFFF00FFh
- DTACK delay
  : 180ns - 350ns

RESET Sources

- **/SYSRESET Pin(VME) : Falling Edge Reset**
- **WR 0FFFFH on I/O Map Address Offset 0h**
- Face Plate Reset Push-button
- Watch-dog circuit timeout (self reset)

I/O Map Specifications

- RD : Offset 0~3h (FFFF00x0~3h ; x=2 x ID)

ADDRESS		DATA		REMARK
Byte 0	b0	CH1	OCC.	0:비점유, 1:점유
	b1		OPEN	0:정상, 1:단선
	b2		SHORT	0:정상, 1: SHORT
	b3		OSC.	0:정상, 1:발진불량
	b4	CH2	OCC.	0:비점유, 1:점유
	b5		OPEN	0:정상, 1:단선
	b6		SHORT	0:정상, 1: SHORT
	b7		OSC.	0:정상, 1:발진불량
Byte 1	b8	CH3	OCC.	0:비점유, 1:점유
	b9		OPEN	0:정상, 1:단선
	b10		SHORT	0:정상, 1: SHORT
	b11		OSC.	0:정상, 1:발진불량
	b12	CH4	OCC.	0:비점유, 1:점유
	b13		OPEN	0:정상, 1:단선
	b14		SHORT	0:정상, 1: SHORT
	b15		OSC.	0:정상, 1:발진불량

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ADDRESS		DATA		REMARK
Byte 2	b0	CH5	OCC.	0:비점유, 1:점유
	b1		OPEN	0:정상, 1:단선
	b2		SHORT	0:정상, 1: SHORT
	b3		OSC.	0:정상, 1:발진불량
	b4	CH6	OCC.	0:비점유, 1:점유
	b5		OPEN	0:정상, 1:단선
	b6		SHORT	0:정상, 1: SHORT
	b7		OSC.	0:정상, 1:발진불량
Byte 3	b8	CH7	OCC.	0:비점유, 1:점유
	b9		OPEN	0:정상, 1:단선
	b10		SHORT	0:정상, 1: SHORT
	b11		OSC.	0:정상, 1:발진불량
	b12	CH8	OCC.	0:비점유, 1:점유
	b13		OPEN	0:정상, 1:단선
	b14		SHORT	0:정상, 1: SHORT
	b15		OSC.	0:정상, 1:발진불량

- WR : Offset 0h (FFFF00x0h ; x = 2 x ID)

ADDRESS	DATA	FUNCTION
LOW BYTE	0FFH	BOARD RESET
HIGH BYTE	0FFH	

DIP SWITCH configuration

- SW3,SW2 (Sensitivity Select)

SWITCH ID		CH	REMARK
SW3	1(L)	1	OFF(L),OFF(R) : Low OFF,ON : Normal ON,OFF : High ON,ON : V-High
	2		
	3	2	
	4		
	5	3	
	6		
	7	4	
	8(R)		
SW2	1(L)	5	
	2		
	3	6	
	4		
	5	7	
	6		
	7	8	
	8(R)		

- SW1 (Function Select)

SWITCH ID		FTN	REMARK	
8BIT DIP SW.	1(L)	TIME LIMIT	OFF	3MIN
			ON	NO LMT.
	2	CH. CNT	OFF(L),OFF,OFF(R)	8CH.
	3		OFF,OFF,ON	1CH.
	4		....	....
			ON,ON,ON	7CH.
	5	포장 두께	OFF	Normal
			ON	Thick
	6	-	(Reserved)	-
	7	Track -ing Speed	OFF	Typical
			ON	Slow
	8(R)	-	(Reserved)	-

LED function description

NAME	COLOR	REMARK
PWR	Green	POWER LED.
CH1	Dual Color LED	GREEN : NO OCC. (비점유) AMBER : OCC (차량 점유) RED : LOOP SHORT ERR. RED FLICKER : LOOP OPEN ERR.
CH2		
CH3		
CH4		
CH5		
CH6		
CH7		
CH8		

ID switch description

ID setting		BASE ADDR	REMARK
10 STAGE BINARY ROTARY SWITCH	0	FFFF0000H	DET. SLOT #1
	1	FFFF0020H	DET. SLOT #2
	2	FFFF0040H	DET. SLOT #3
	3	FFFF0060H	DET. SLOT #4
	4	FFFF0080H	DET. SLOT #5
	5	FFFF00A0H	DET. SLOT #6
	6	FFFF00C0H	DET. SLOT #7
	7	FFFF00E0H	DET. SLOT #8
	8	-	-
	9	-	-
REMARK		No SLOT Position restriction.	

RST / CHK switch description

- RST swtch

  : Board reset switch.

- CHK switch (in pushed status)

SENS. SET		FLICKER TIMES	REMARK
Sens. Setting Status	Low	1	Each CH. LED Displays for each CH. Sensitivity Setting Status.
	Normal	2	
	High	3	
	V-High	4	

- A-MON Jack

  : Analog Inductance wave monitoring.

- E-SIO Conn.

  : Extended Serial Input/Output port.

* 성능 향상 등을 위하여, 예고 없이 제품 사양이 변경될 수 있습니다.