



- ☆ IEC61508 Certified by TÜV
- ***** Four indicator outputs
- Current monitoring for fault detection
- * Six logic resolvers
- * Externally powered
- Configurable output levels

DESCRIPTION

The HubBus Remote Isolation Indicator Type HBRII is part of the HubBus field bus range of products. The DIN rail mounted HBRII provides four LED indicator outputs that can be controlled from the HubBus field bus network.

The HBRII can receive from just 1 through to all 2048 valid HubBus channels to control the four indicator outputs directly or via complex multi-term logic functions. The remote isolation indicator has four indicator outputs controlled by up to six logic resolvers capable of implementing OR, AND, NOR and NAND logic functions on all valid HubBus digital channel states including ON, OFF and FAULT. Each resolver has an independently configurable output ON and OFF delay filter to allow implementation of simple timer functions. The state of each logic function can also drive a user configured HubBus channel.

The four indicator outputs are galvanically isolated from the HubBus network port. It has been designed to be used with the Multicolour Sunlight Readable Indicator Type IND1 but may be used with other appropriately designed indicators. Outputs levels may be independently controlled from 0 to 40mA.

Each of the four indicator outputs have current individually monitored by a microcontroller to detect indicator faults such as failed indicators or shorts between indicators. Status may be reported back to the system monitor to quickly identify failures.



Maintenance and repair are made easier along with the reduced possibility of wiring faults with the use of pluggable connectors which are available with screw or spring cage terminals and horizontal or vertical wire entry. Maintenance is also improved with easy to read status LEDs with a common layout across the whole module product range.

The status LEDs show communication, power, line status and indicator status at a quick glance, in addition there is a quick open flip top lid to access the programming port.

Any of the HBRII parameters can be conveniently configured using the battery powered HubBus Handheld Universal Programmer and Tester, Type HHP1-H.

CERTIFICATION

- UL61010-1 (Safety) [E471953]
- CAN/CSA-C22.2 No. 61010-1 (Safety) [70189567]
- IEC61000-6-4 (Emissions)
- IEC61000-6-2 (Immunity-Industrial Environments)
- IEC61000-6-7 (Immunity-Functional Safety)
- IEC60068-2-1 & IEC60068-2-2 (Environmental)
- IEC60068-2-6 (Vibration)
- IEC61508 (Funct. Safety) [TÜV 968/FSP 2175.00/20]

SPECIFICATIONS

General	
Name	HubBus Remote Isolation Indicator
Туре	HBRII
Interface	
Bus channels	Adaptive (up to 2048)
RS485	Modbus 2 wire (isolated port) (Disabled for safety function)
Configuration	TTL
Physical	
Dimensions	72mm (W) x 63mm (D) x 90mm (H) 2.83 (W) x 2.48 (D) x 3.54 (H) inches
Mass	150g / 5.29 oz
Mounting	DIN EN 60715 / TS35
Ingress protection	IP20
Environment	
Operating Temperature	-20°C to 50°C / -4°F to 122°F
Operating relative humidity	10% to 90% Non-condensing
Electrical	
Power supply voltage	15 - 48VDC
Power load (max.)	100mA
Status Indicators	
Modbus Activity	2 front panel LED
Controller, Power, Bus Health	1 front panel LED each
Indicator Output Status	4 front panel LED
Logic Resolver	
Number	4 with Relay and HubBus output 2 with HubBus output
Logic Functions	AND, OR, NAN <mark>D a</mark> nd NOR
Channel Terms	N/A, ON, OFF or FAULT
Indicator Output	
Current Output	Adjustable: 0 to 40mA
Fault Detection	Open circuit, under and over current short across output drivers

SAFETY DATA

See HubBus Safety Manual 125-267-12 for details.

HBRII		
SIL	2	
HFT	0	
SFF	98.50%	
PFD _{avg}	7.26 x 10 ⁻⁵	
PFH (¹ / _h)	1.66 x 10 ⁻⁸	
Proof test interval	12 months	



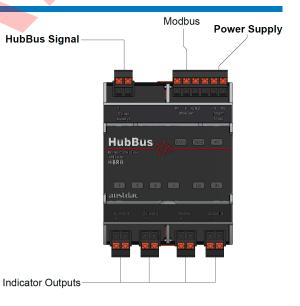
Terminals

HBRII						
13	+	Output 1	Uutput 1 I nggn	Signal+	1	
14	-		Bus	Signal-	2	
16	+	ut 2				
17	-	Output 2				
19	+	ut 3	RS48	A+	7	
20	-	Output 3	RS485 Modbus	B-	8	
			dbus	СОМ	9	
22	+	Output 4	N/A			
23	-	Outp	Power Input	+V	11	
			ver iut	0V	12	

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HUBBELI

CONNECTION DIAGRAM



ORDERING DETAILS

DESCRIPTION	ORDER CODE
HubBus Remote Isolation Indicator	HBRII



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