

OPERATION TERMINAL NPB CONTROLLER



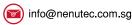
NENUTEC ASIA PACIFIC PTE LTD

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NDB 500 SERIES OPERATION TERMINAL NPB CONTROLLER



NDB 500 SERIES

NDB 500 series thermostat with LCD is a remote display and operation terminal for NPB series controllers with an internal temperature sensor and two passive inputs.

PRODUCT FEATURE

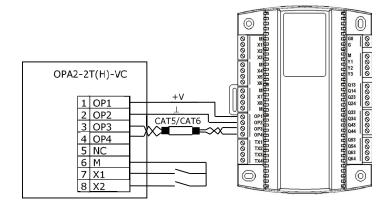
- Remote access to controller state, setpoints, inputs and outputs
- Access to time schedule and clock settings
- Access to configuration parameters
- RS485 peer to peer communication according to proprietary protocol
- The terminal adapts itself to the NPB controller used.
 One terminal thus fits all the configuration variations of the NPB series
- Internal temperature sensor
- Internal humidity sensor (D version)

TECHNICAL SPECIFICATION

MODEL NUMBER	NDB 501	Operation terminal for NPB controller with peer to peer RS485 communication and internal temperature sensor and 2 passive inputs	
	NDB 501D	Operation terminal for NPB controller with peer to peer RS485 communication and internal temperature sensor and 2 passive inputs. Include internal humidity sensor	
POWER SUPPLY	12 - 30VDC		
POWER CONSUMPTION	Max 1 VA		
	Internal temperature		
SIGNAL INPUT	Range	050° C (32122 °F)	
	Accuracy	0.5 K	
SIGNAL INPUT FOR HUMIDITY SENSOR	Humidity sensor	Capacity sensor	
	Range	0100 % RH	
	Hysteresis	1%	
	Stability	< 0.5% / year	
COMMUNICATION	RS485 in accordance with EIA/TIA 485		
ENVIRONMENT	Operation (with accordance to IEC 721-3-3) temperature: 0 to 50°C; <95% RH Non-condensing		
CERTIFICATION	CE and ISO 9000 (ENrequirements) with EMC directive 2004/108/EC & how voltage directive 2006/95/EC		
DEGREE OF PROTECTION	IP30 to EN 60 529		
BODY MATERIAL	Fire proof ABS plastic		
DIMENSION	88x88mm		
WEIGHT	250g		



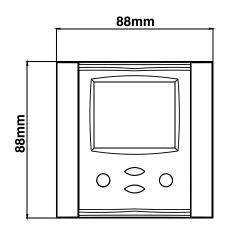
WIRING DIAGRAM

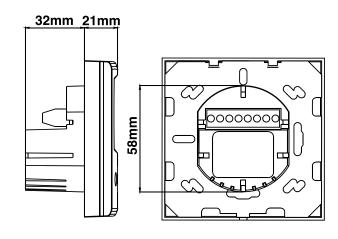


DESCRIPTION

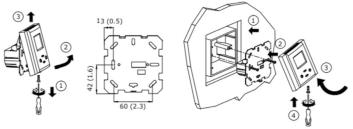
OP1-OP4	Connection to NPB controller via RS485	
NC	Do not connect	
М	Common for potential free contacts	
X1	Passive input for dry contact. VI3	
X2	Passive input for dry contact. VI4	

DIMENSION (mm)





MOUNTING



- Install the operation terminal on an easy accessible interior wall, approx. 1.5 m above the floor in an area of average temperature.
- Avoid direct sunlight or other heat sources, e.g. the area above radiators and heat emitting equipment.
- Avoid locations behind doors, outside walls and below or above air discharge grills and diffusers.
- Location of mounting is less critical if external temperature sensors are used.

The performance specifications are nominal and conform to acceptable industry standards. NENUTEC shall not be liable for damages resulting from misapplication or misuse of its products.