ALL-IN-ONE.NTC – Gen-set Controller

P/N 63.50.104, P/N 63.50.104-HSS

Dimensions
- length: 223 mm (8.78”)
- width: 166 mm (6.54”)
- height: 68.5 mm (2.7”)

Mechanical Data
- weight: 833 g (1.84 lbs)

Climatic Environmental Conditions
- permissible operating temperature range:
  - when using USB port: -30 °C to +70 °C (-22 °F to +158 °F)
  - 0 °C to +70 °C (32 °F to +158 °F)
- permissible storage temperature range:
  - -40 °C to +80 °C (-40 °F to +176 °F)
- maximum relative humidity: max. 95 % without condensation

Electrical Data
- power supply: 8 V DC to 36 V DC
- required current:
  - 0.4 A at 8 V DC
  - 0.15 A at 24 V DC
  - 0.1 A at 36 V DC

In- and Outputs
- configurable binary inputs: 16
- configurable binary outputs: 16 (HSS / LSS)
- configurable analog inputs: 4 (0-2.4 kΩ, 0-20 mA, 0-5 V)
- configurable analog outputs: 1 (0-10 V / 0-20 mA)
- current measurement inputs: 3x generator, 1x mains/bus
- voltage measurement inputs: 3x generator, 3x mains/bus
- speed pick-up input: min. 2 Vpk-pk (4 Hz to 4 kHz), max. 50 Veff
- speed governor output: ±10 V DC / 5 V PWM (500-3000 Hz)
- AVRI interface output: TTL (5 V PWM)

Communication
- interfaces: 2x CAN, ethernet, RS232/RS485 (switchable), RS485, USB

Version
- binary inputs as low-side switch: P/N 63.50.104
- binary inputs as high-side switch: P/N 63.50.104-HSS incl. plug-on module I-HSS-BIN6/-BIN10
System Overview (Example)

1. ALL-IN-ONE.NTC – gen-set controller
2. Engine
3. Extension modules (IS-AIN8, IS-BIN16/8 etc.)
4. ALL-IN-ONE.Vision 8 – TFT color display

A. IntelliMains – mains supervision controller
B. IntelliPro – utility protection relay
C. MainsPro – mains decoupling relay