

## ***PRODUCT TRAINING BASLER DECS-100 / DECS-250***

### **BASLER DECS-100:**

- AVR selection (style number as per application)
- AVR wiring and connections:
  - Main power supply, ICRM need
  - Sensing VT and CT, phase selection
  - Binary inputs for setpoint change and regulation mode selection
  - Analogue input for setpoint offset
  - Binary output (AVR fault) for integration in your system
  - AUTO/MANU modes
  - Modes of regulation as per your generation system connection
- AVR communication with laptop:
  - Software BESTCOMS presentation
  - Communication cable required
  - Save / open settings files
- BESTCOMS DECS-100 functionalities:
  - PID Tuning
  - Setpoints: CT / VT ratios, soft start...
  - Limiters: V/Hz, under / over excitation
  - Protection: Over voltage, over excitation...
- Commissioning and maintenance tips:
  - Step responses and analysis for gains tuning

## **BASLER DECS-250:**

- AVR selection (style number as per application)
- AVR wiring and connections:
  - Main power supply, ICRM need
  - Auxiliary power supply
  - Sensing VT, bus and CT, phase selection
  - Configurable binary inputs (setpoint change, regulation mode selection, customized logic)
  - Configurable binary outputs (AVR on/off, AVR alarm, AVR fault, GCB closure / trip...)
  - Analogue inputs for setpoint offset
  - AUTO/MANU modes
  - Modes of regulation as per your generation system connection
- AVR communication with laptop:
  - Software BESTCOMSPLUS presentation
  - Communication cable required
  - Activate your software licence
  - Save / open settings files
  - Save / open your workspace preferences
- BESTCOMSPLUS DECS-250 functionalities:
  - Setpoint, CT / VT ratios, soft start, parallel compensation, tracking...
  - Field-flashing purpose and configuration
  - Limiters: V/Hz, under / over excitation, VAR, stator current and purpose.
  - Protection: Over / Under voltage, over / under frequency, reverse power, loss of field, rotating diode failure...
  - Sequence of event / datalog purpose and configuration
  - PSS settings
  - Auto-synchroniser settings
  - ...
- Commissioning and maintenance tips:
  - Step responses and analysis for gains tuning
  - Limiters / protection settings to match the generator capability diagram
- How to configure the customized logic with BESTLOGICPLUS:
  - List of inputs and outputs available
  - Blocks and gates available
  - What is the minimum data required in the logic to make the DECS-250 work
  - Example of logic used in some projects
- Recording analysis with BESTWAVE:
  - Open and display curves recorded with the DECS-250
  - Customise view to focus on part of the recording
- DECS-250 optional modules:
  - Contact Expansion Module: CEM-2020 and CEM-2020H.
  - Analog Expansion Module: AEM-2020.