

KDR-1200D

Digital Excitation System



□ **KDR-1200D Features**

- Real time metering
- 32-bit microprocessor
- 0.25% voltage regulation (AVR mode)
- Generator voltage soft start
- Adjustable under frequency threshold
- rms voltage sensing, single or three phase voltage sensing
- Reactive droop current compensation
- Under and over excitation limiting
- Var or power factor control
- Auto tracking of all operating modes
- Dual modes of controller
- Reference adjuster for remote raise/lower control
- Control via a contact input, front panel switches
- Output annunciation via general alarm contacts
- Watchdog timer alarm output contact
- Protection including :
 - Generator under and over voltage
 - Generator under frequency
 - Field over voltage
 - Field over current
 - Loss of voltage sensing
- Input/Output : 74 Points (AI:18, AO:8, DI:32, DO:16)
- Data logging and event recording
- PSS(Option)

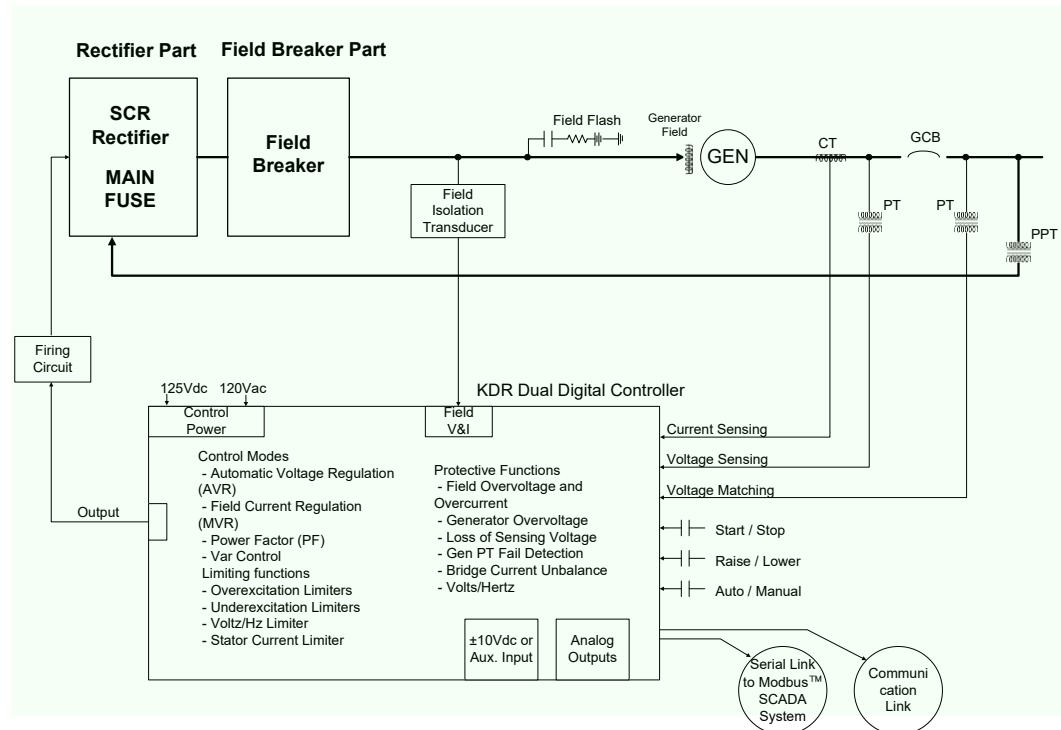


<Control Panel>

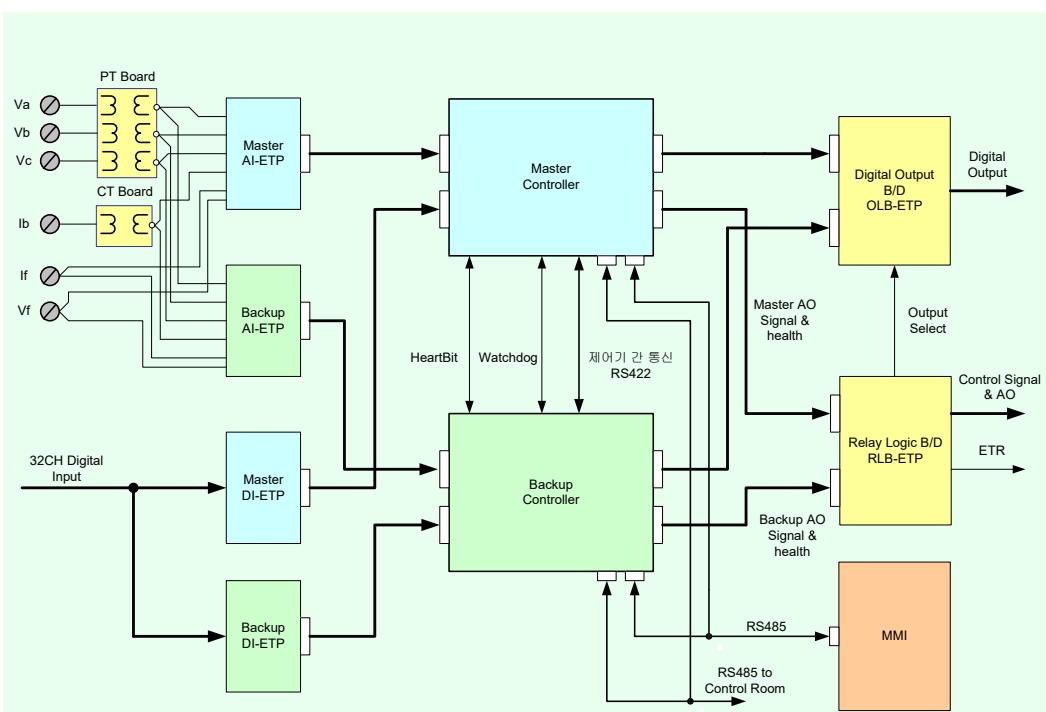


<Rotating type AVR>

□ KDR-1200 Single Line Diagram



□ KDR-1200 Configuration



HMI (Human Machine Interface)

- Main Screen : the general operation state and functions of the system
 - PCR screen : The operational state of PCR
 - Real Value : Realtime display of major data
 - Annunciator : Alarm state and contents
 - Real/Historical Trend : The current values and trend of major data
 - Sequence of event : Events regarding all Tags
 - Generating ability curves : Realtime display of the operation state on the curves that indicate the ability
 - Control Signal : Display of various controlling signals
 - Network : Display of the network state



□ PCR (Phase Controlled Rectifier)

- 3 Phase Full Bridge Rectifier
- Dual Parallel Bridge
- Input AC Breaker
- Output DC Isolator
- Bridge Active Balance
- Current Control
- Dual Fan Air cooling
- Firing Control Circuit
- Mimic Display Board
- Field Forcing
- On-Line Maintenance



<PCR Panel>

□ Field Breaker

- Field Breaker (ANSI 37.14 & ANSI 37.16)
- Field Discharge Resistor (ANSI/IEEE C 37.18)
- De-excitation Circuit
- AC/DC Initial Flashing
- AC/DC Filter



<F/B Panel>





- ▶ Would you like to do replacement of the aging equipment?
- ▶ Would you like to do reliable equipment than the current equipment ?

 *Meet the Glory ENC ..*

 *Let us help you with all the best..*

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