

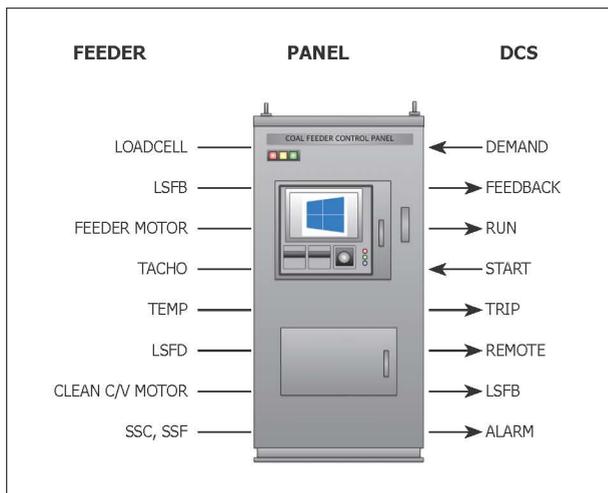
Coal Feeder Control System

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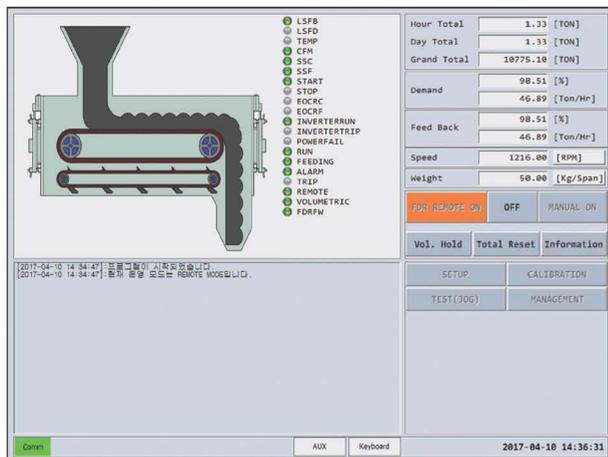
Overview

Coal Feeder is the one of important equipment in the thermal power plant which needs to be maintained for guaranteeing the uninterrupted operation. The cost of replacing controller card is very high due to the monopoly status of competitors. So, it's developed by reinterpretation of system inter-logic and secured patent and performance authentication and had achieved efficiency improvement, strengthen the performance, and cost saving.

Configuration



►► Configuration



►► HMI



►► Interior view of panel

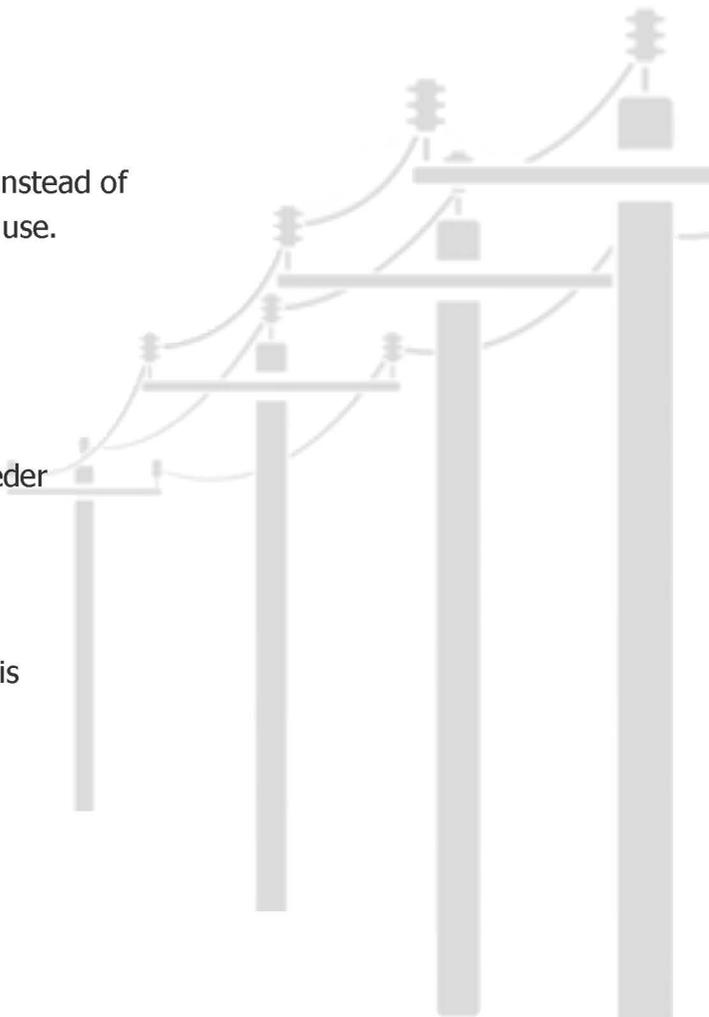
Performance Evaluation

Item	Demand (% , mA)	Feedback	Accuracy
Flow rate Calculation	25% (8mA)	11.9 T/H	0.001%
	50% (8mA)	23.8 T/H	0.001%
	75% (8mA)	35.7 T/H	0.001%
	100% (8mA)	47.6 T/H	0.001%
Flow rate Control	25% (8mA)	8mA	0.05%
	50% (8mA)	12mA	0.03%
	75% (8mA)	16mA	0.02%
	100% (8mA)	20mA	0.001%

- Our system has a higher accuracy than competitor.
- Our system has tiny deviation against demand from DCS

Features

- Graphics-based Interface
 - Intuitive operation via touch screen display instead of an alphanumeric/text character and easy to use.
 - Represent of the important information to a graphics.
- Can be customized to fit customers needs.
- Can be applied to any types of coal feeder.
- Better performance than competitor's coal feeder control system.
- Price competitiveness against competitor at cheaper price.
- Signal tracing, detection and control function is available through monitoring system



Specification

Main Control Card

- CPU : TMS320F28335(DSP)
- -10 ~ 60°C
- SRAM 256k x 16bit, NAND Flash 256M x 8bit
- Power : Max. 1A@24VDC
- RS-422
- Loadcell : 2port

I/O Control Card

- -10 ~ 60°C
- Power : Max. 1A@24VDC
- DI / DO / AI / AO

Touch Screen

- Intel Baytrail-I E3845 Quad Core
- DDR3L SDRAM 4GB
- Integrated Intel HD Graphics
- 12.1" LED
- Storage : SSD120GB
- Windows 10
- Power Consumption : 21W
- Touch : Analog Resistive
- Ethernet : 2 Port
- USB : 4 Port

Reference List

No	User	Site	Unit	Quantity	Date	Feeder Body
1	EWP	Dangjin (Korea)	#1~4	24	2010~2014	STOCK
2	KOMIPO	Boryeong (Korea)	#1	2(E, F)	2011. 05. 31	STOCK
3			#2	2(E, F)	2011. 05. 20	STOCK
4			#3~6	24	2012~2014	STOCK
5	WP	Taean (Korea)	#5	2(E, F)	2016. 04. 19	MERRICK
6			#6	6	2016. 12. 09	MERRICK
7			#8	1(F)	2015. 06. 10	MERRICK
8	KOEN	Samcheonpo (Korea)	#5~6	12	2017	STOCK
9						
10	KOSPO	Hadong (Korea)	#1~6	36	2017. 01.26	STOCK

Installation

