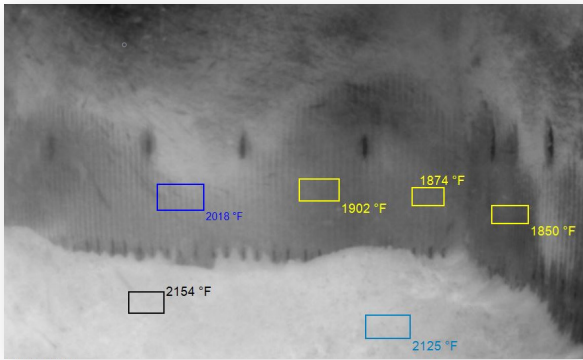


Diamond Power® TemPro® IV Temperature Measurement System

Babcock & Wilcox (B&W) offers a comprehensive temperature measurement system for recovery boiler bed or superheater tube monitoring. Designed to meet specific boiler operator needs, the Diamond Power® TemPro® IV system provides accurate real-time temperature readings for boiler efficiency readings and emissions control. Temperature readings are logged for trend analyses and to compare various operational features and conditions within the boiler.

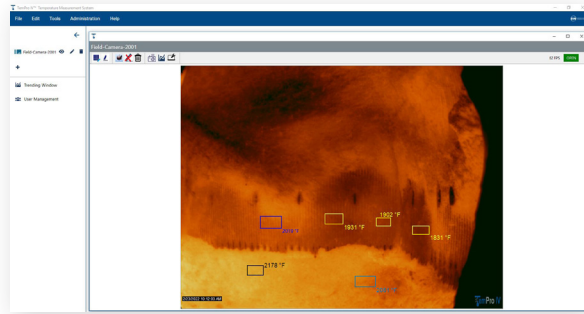


Features

- Measures boiler temperatures ranging from 1292 to 2800F (700 to 1538C)
- Monitors up to 15 regions
- +/- 3% degree of accuracy
- 105° diagonal field-of-view
- Remote or local monitoring with LCD screen on camera air control unit
- NEMA 12 equivalent housing to withstand harsh boiler environments
- Easily integrates into existing DCS via OPC
- CSV output to log readings and perform trend analyses
- Capture screen shots with one mouse click or automatically at user-defined intervals
- Real-time graphical trending
- Bed formation tracking
- Real-time video recording with manual or auto stop, loop recording and scheduled recording



SCAN FOR MORE INFO
ON OUR WEBSITE



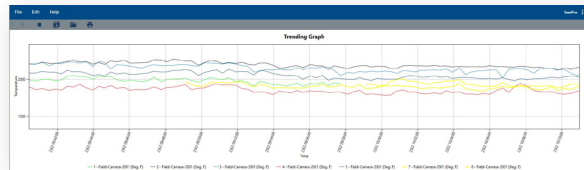
State-of-the-art technology for monitoring recovery bed or utility profiles and firing conditions

Benefits

Monitor firing conditions in up to 15 regions of your boiler with accurate real-time temperature readings and local or remote viewing.

Export data in the form of CSV output to Excel or bitmap screen capture shots. Additionally, the system can easily integrate into your boiler's DCS control system. Use the data to test boiler efficiency and monitor emissions control.

Reliable and accurate boiler imaging and temperature measurement technology, withstanding the harshest boiler environments while offering the industry's largest field of view.



Availability

The TemPro IV system is available as an add-on to current SmeltCam® AT IV or UtiliCam® AT IV infrared camera systems or as a complete installation on nearly all types of recovery and utility boilers. Contact your local Babcock & Wilcox representative, or call us at (800) 700-2791.

(Continued on reverse side)

TemPro IV Temperature Measurement System Specifications

Air Requirements	Camera Assembly	60-80 psi (414-551 kPa) @ 105-20 scfm (0.007-0.009 Nm ³ /s) Instrument or filtered plant air
	Optical Probe	15 to 20 psi (103.4 to 137.8 kPa) @ 38 to 43 scfm (0.017 to 0.020 Nm ³ /s) Based on instrument or filtered plant air at 90 to 100F (32.2 to 37.7C) ambient
Air Connections	Filtered Air System	0.5 in. (1.27 cm) NPT pipe
Camera Assembly	Lengths Available	24 in. (61 cm), 36 in. (91.4 cm), 48 in. (121.9 cm) or 60 in. (152.4 cm)
	Optical Probe Outer Diameter	1.5 in. (3.8 cm) material 316L SST
	Weight (Including Lenstube)	24 in. (61 cm) unit: 26.5 lb (12 kg) 36 in. (91.44 cm) unit: 30 lb (13.6 kg) 48 in. (121.9 cm) unit: 33.5 lb (15.2 kg) 60 in. (152.4 cm) unit: 37 lb (16.7kg)
Retract Control Unit	Material	NEMA 4X fiberglass. Weight: 12 lb (5.4 kg)
Operating Temperatures	Camera Assembly Ambient Temp.	+150F (+66C)
	Maximum Internal Furnace Temp.	+3000F (+1648C)
Electric Retract Assembly	Activated by low-pressure switch on air supply	
	Weight with Universal Mount	Approx. 80 lb (36.1 kg)
Power Requirements	Camera Air Control Unit	100 to 240 Vac, 47 to 63 Hz, 1.5A max.
	Electric Retract	102-130Vac, 50/60 Hz., 5.0A max.
Data Requirements	Cat5E or 6 Ethernet 328 ft (100 m) max standard. Optional dual LC fiber optic multimode, 50/125 micron, 1640 ft (500 m) maximum	

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RENEWABLE | ENVIRONMENTAL | THERMAL

Established in 1867, Babcock & Wilcox is a global leader in renewable, environmental and thermal technologies and services for power and industrial applications.

For more information or to contact us, visit our website at www.babcock.com.