

# Ingersoll Rand New iControl Compressed Air Intelligent Control System



# New iControl Product Introduction



The IR century-old air compressor technology accumulation and the integration of the Internet of Things have resulted in the perfect combination of centralized control and information processing for air compressor stations.



Remote intelligent manager for energy saving and stable operation of compressed air systems.



A distributed system architecture management system that realizes functions such as remote browsing and remote data collection.

## New iControl Typical System Architecture

Mobile device

(Remote wireless browsing, SMS alarm function)



Clients

(Remote wireless browsing, remote diagnosis and service)

Can be expanded to 8 sets of various air compressors, post-processing, instruments and other equipment



Data center



Boarding position



Dryer



Valve



Pressure



Dew point



Flow

# New iControl Product Advantages

Safety

Reliability

Intelligence

Convenience

Efficiency

## New iControl Product Advantages——Safety



- In the automatic control mode, after the equipment fails, the system will automatically start the standby machine to ensure the customer's on-site gas consumption
- Various joint control protection functions (low pressure, rejection, shutdown delay protection, etc.) ensure the safe operation of the system
- The cabinet comes with sound and light alarms to remind the operator in time
- The SMS alarm function is conducive to timely detection and problem solving
- Alarm information is recorded, stored, and queried
- Faults can be traced back to facilitate subsequent analysis and tracking

## New iControl Product Advantages——Reliability

1

Standardized professional design

2

Mature mass production products

3

Various applications in multiple sites

4

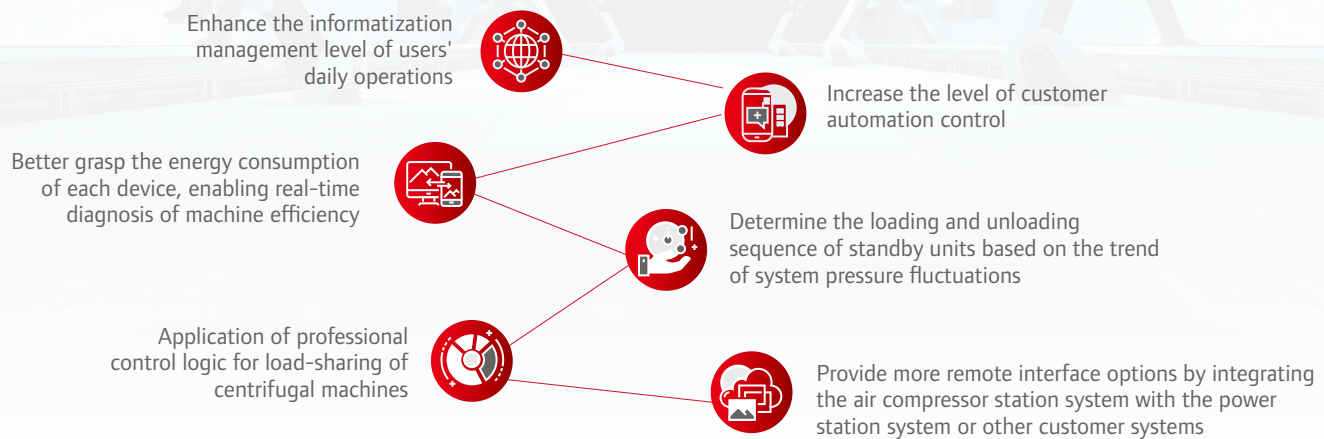
Convenient for customers to develop maintenance plans and facilitate operation management

5

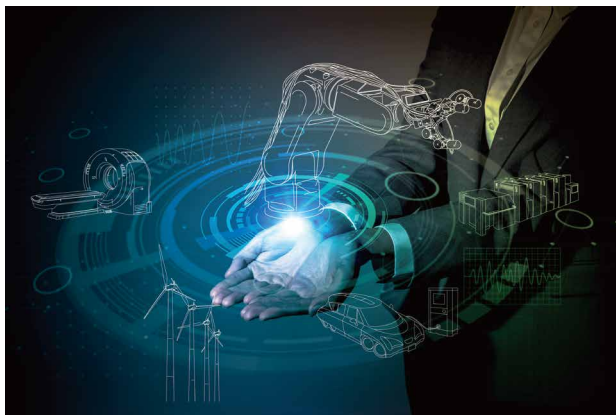
Unit rotation usage with roughly the Same operating time and balancing wear



## New iControl Product Advantages—Intelligence



## New iControl Product Advantages—Convenience



- Automatically control the operation of the equipment without manual operation
- 8 sequences automatically control and switch the operation of the main and standby machines without manual intervention
- Remote automatic/manual operation of the equipment to avoid frequent access to the production area
- The data is recorded in real time, relevant alarms are set, and customers can be reminded by SMS in time
- According to some important data, the interlocking control of machines and equipment is realized

## New iControl Product Advantages—Efficiency



Start the corresponding number of machines according to the actual gas consumption to fully ensure the stability of the gas supply pressure in the pipeline network



Reduce the number of machines manually started to extend the service life of the equipment



The primary and standby machines operate in cycles, with balanced operating times for the equipment to reduce maintenance frequency



Eight-channel signal real-time data recording for up to 30 days, automatically saved for convenient customer analysis of equipment usage



The host computer can provide relevant data reports (daily, monthly, etc.) to facilitate customers in improving production efficiency management



New iControl name	Specification model	Unit	Quantity	Function description
<b>iControl-4 Basic type</b>	<b>iControl Basic type -4 Comp 8 Dryer</b>	set	1	Suitable for MB communication centralized control of 4 air compressors, hard-wired centralized control of 8 dryers, 4~20mA signal input 4 AI (at least 1 system pressure acquisition); with conventional station control and energy-saving capabilities; true color touchscreen 10.4".
<b>iControl-8 Basic type</b>	<b>iControl Basic type -8 Comp 8 Dryer</b>	set	1	Suitable for MB communication centralized control of 8 air compressors, hard-wired centralized control of 8 dryers, 4~20mA signal input 4 AI (at least 1 system pressure acquisition); with conventional station control and energy-saving capabilities; true color touchscreen 10.4" .
<b>iControl-4 High-end type</b>	<b>iControl High-end type -4 Comp 8 Dryer</b>	set	1	Suitable for MB communication centralized control of 4 air compressors, hard-wired centralized control of 8 dryers, 4~20mA signal input 4 AI (at least 1 system pressure acquisition); with conventional station control and energy-saving capabilities; true color touchscreen 10.4" ; also equipped with a 3G wireless router network module, enabling remote browsing of the station's operating status anytime, anywhere.
<b>iControl-8 High-end type</b>	<b>iControl High-end type -8 Comp 8 Dryer</b>	set	1	Suitable for MB communication centralized control of 8 air compressors, hard-wired centralized control of 8 dryers, 4~20mA signal input 4 AI (at least 1 system pressure acquisition); with conventional station control and energy-saving capabilities; true color touchscreen 10.4" ; also equipped with a 3G wireless router network module, enabling remote browsing of the station's operating status anytime, anywhere.

## New iControl Rich Optional Features

- Control equipment in compressor room, such as dryers, pumps and cooling towers
- Collect and analyze measurement data such as pressure, dew point and temperature
- Support various communication interfaces such as Ethernet, RS485, RS232, RS422
- Implement host computer functions: real-time status, data display, remote operation, parameter modification, real-time or historical curves, alarm display and query
- Implement data logging functions to facilitate statistical analysis and event traceability of the station's operating status, thereby improving operational safety and reliability



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