

MONITORING THE FIELD

June, 1971

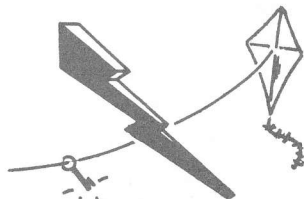
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ELECTRIC HEAT CONTROL

Because of the rapidly growing market for electric heat control, it is well to mention that Johnson is committed to providing total electric heat control capabilities. Because of this commitment, it is imperative that all Johnson personnel be aware of our most recent developments in this area.

ELECTRIC



TECHNICAL REVIEW

Johnson has expanded its line of time proportioning SCR control units so that they are compatible with any input and any system voltage arrangement. Inputs of 0 to 20 psig (integral transducer), 0 to 16V DC, 0 to 135 ohms or TE-2800 thermistor are available for every DQ-4100, DQ-4200, DQ-4300 and DQ-4400. Field personnel are urged to review all literature covering electric heat controls and also to be proficient in discussing all aspects of ER-685.

In addition to what is related in the literature, the following recent developments should be noted.

DQ-4100

The DQ-4100 is now Component Recognized by Underwriters' Laboratories, Inc., for all models except those with integral transducer. Those will be submitted at a later date.

A new 346 volt model has been added to fill the bill for 600 volt, four-wire systems.

DQ-4200

The DQ-4200 also has a 346 volt model.

DQ-4300

The DQ-4300 will be released later in the year. It will be a single-phase unit rated for 25 amperes at 480 volts. Physically it will be the same size as the present DQ-4100. *It is presently available but must be ordered on Form 1634.* Prices can be obtained from your Regional Engineer or from the Field Engineering Department in Milwaukee.

DQ-4400

The DQ-4400 three-phase unit is available as a 20, 30 or 50 ampere unit.

A 75 ampere model will be made available later this year. Separate enclosures are not required for this unit. Voltage ratings offered are 208/240, 416/480 and 600 volts. It has integral SCR fusing as an option. Prices are available from your Regional Engineer or from the Field Engineering Department in Milwaukee. Literature and price sheets are scheduled for distribution in July.

KZ-3000

In the near future, the KZ-3000 will be available as a two-, three- or four-pole model.

Other

Other developments and needs in the area of electric heat control have demanded panel fabrication and factory calibration.

The Panel Division in Poteau now has the necessary capabilities for the design and fabrication of all electric heat control panels. Contact Field Engineering for details.

The Electronics Division will factory calibrate all models of the DQ-series time proportioning controls, except for thermistor models. An additional charge of \$5.00 per unit will be made.

Controllers which require precise factory calibration should be ordered on Form 1634. Specify the zero and span calibration points for each unit.

WHO'S WHO ON FACTORY ROW

You may not recognize the face, but it's a safe bet that a large percentage of our readers would recognize the voice of Sharlene Wardinski, Supervisor of Central Order Inquiry. Sharlene and her crew of seven handle all order inquiries from the branches, which number from 2500 to 3000 each month. These include regional approval letters, phone calls, changes and cancellations.

With the recent addition of CRT machines, all information about a given order can be located within seconds. These units are on line directly to the computer. The operator keys in an order number or part number and all information regarding its status is immediately flashed on the screen. The machines were installed about the same time the new ordering system was introduced and as Sharlene would say, "patience is a virtue."



Mrs. Sharlene Wardinski, Supervisor
Central Order Inquiry

Sharlene has been with Johnson for 19 years. Her primary outside interest is working with children. She is a former Sunday school teacher and has been a Junior Achievement advisor for the past two years. She also manages to find time to bowl in a league.

The Quality Assurance Department has determined that most rubber check valve gaskets used on T-4002 pipeheads (T-4002-616) which are returned to the factory as faulty have had the holding screw turned down too far. This causes the gasket to be compressed so that it is forced out of the bracket. NEVER OVER-TIGHTEN HOLDING SCREWS WHEN INSTALLING PIPEHEADS OR CHECKING FOR LEAKS.

ATTENTION CALIFORNIA VACATIONERS

Anyone heading west on a vacation should take advantage of the worthwhile discounts which are available for many recreation attractions in the Los Angeles area. All Johnson Service Company employees are eligible, through our Los Angeles Branch Office, for discounts on the following:

DISNEYLAND; KNOTTS BERRY FARM; CATALINA ISLAND CRUISE; UNIVERSAL CITY TOUR; LOS ANGELES ZOO; JAPANESE VILLAGE AND DEER PARK; LION COUNTRY SAFARI/ORANGE COUNTY RACEWAY; ARK PARK/UNIVERSAL STUDIOS; PALM SPRINGS TRAM; SEA WORLD, SAN DIEGO; SAN DIEGO ZOO; MAGIC MOUNTAIN, VALENCIA; LONG BEACH HARBOR CRUISE.

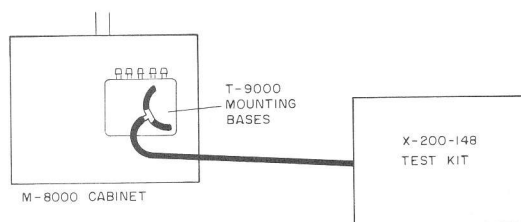
If you are interested, contact Melba Dantin in our Los Angeles Branch Office. Be sure to indicate the **number of persons** in your party and your **departure date**. Allow enough time so that you receive your coupons **before you leave** on vacation.



Sample Discount Card for Disneyland

T-9000 MAIN AIR SUPPLY

Don Scarlet would like to pass along the method the **Salt Lake City Branch** uses to jumper the main air supply in a T-9000 base (*Monitoring The Field*, Feb. 1971). Don suggests installing a tee in the jumper and feeding main air to the T-9000 test kit. The instruments can be calibrated as they are removed without cutting into main air at another location.



JOHNSON SERVICE COMPANY - JAPAN

Johnson Service Company has announced the formation of a Japanese company in joint venture with K.K. Saginomiya Seisakusho, of Tokyo. The new firm, Saginomiya Johnson Controls K.K., will design, manufacture and service automatic environmental control systems in Japan and Southeast Asia.

The company will be headquartered in Tokyo with branch operations in five other principal Japanese cities. Ichiro Nishimi will be president. The board of directors will be composed of an equal number of Japanese and Americans. Johnson personnel will assist in training Japanese engineers in estimating, designing, installing and servicing automatic control systems.

ARMSTRONG HUMIDIFIERS/PNEUMATIC CONTROL

SPOTLIGHT ON CONSTRUCTION

7-71

The Armstrong humidifier is often supplied with a Honeywell pneumatic operator. Because Honeywell uses a one-pipe humidostat their operator is normally supplied with a pilot positioner.

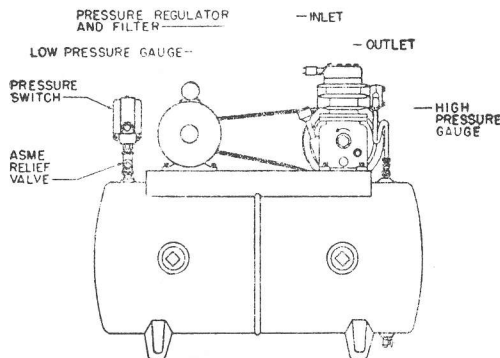
On jobs with Johnson controls, labor savings can be realized by not using the pilot as supplied on the Honeywell operator. Since our humidostat or receiver-controllers are of the relay type a pilot is not necessary for good control. Thus labor can be saved by not running the main air line that would be required if a pilot were used. Sequence control or job specifications would of course still determine if the use of a pilot was mandatory.

Our thanks to **Don Piotrowski**, resident mechanic in **Tallahassee, Florida**, for bringing this to our attention.

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SYMBOL PRINTING SYSTEM

Response to our request for samples of "Stan-Pat" type stick-on drawings was so great that we would like to ask your help again. Central Construction Manager Arn Quakkelaar is investigating a symbol printing method of applying equipment symbols to a drawing instead of using a template. (A full-size sample equipment symbol is shown below.)



The standard template symbols would be selected for this new process and would be designed for a new series of standard control drawings. We'd like to know which drawing symbols you use the most and also whether you'd like any changes made to the existing template symbols. Send your comments to Arn Quakkelaar, Central Construction, Milwaukee, 8-428



Charles D. Andolsek, Construction Engineer
Rochester, N. Y. Branch Office

Chuck Andolsek joined Johnson Service Company 16-1/2 years ago as head of construction in the Rochester Branch Office. He was appointed to his present position in June of 1968.

Chuck is in charge of all construction on approximately 40 projects a year. Like many other construction supervisors he is constantly striving for improved communications between field and factory, especially regarding new products and procedures.

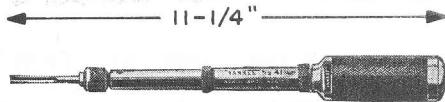
Prior to his employment with Johnson he spent five years as a commercial refrigeration and air conditioning serviceman and also three years in charge of installation and service for an oil burner company. During this time he accumulated a wealth of knowledge of the industry, all of which he brought with him to Johnson.

In 1945 Chuck served as a Buck Sergeant in the Army Special Services. He earned an Associate Degree in Refrigeration and Air Conditioning at Alfred State Technical Institute in Alfred, N.Y. He and his wife have three children.

In addition to water color and oil painting, Chuck enjoys golf, hunting, fishing and "do it yourself" projects. He did the painting in his office as well as several others in the Rochester branch. Chuck belongs to the Penfield Art Association and is a life member of the National Rifle Association.

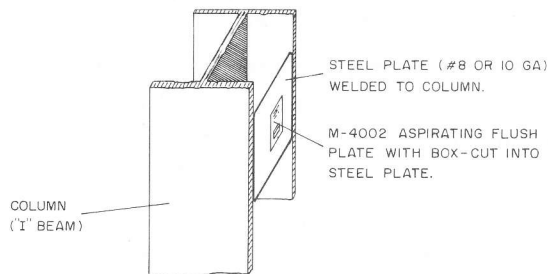
IDEAS OF THE MONTH

Drill for Drywall or Plaster



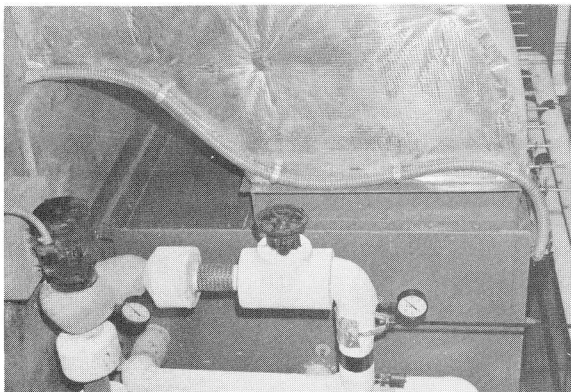
To drill 3/16" holes in drywall or plaster, **Lloyd Armstrong, Jacksonville Office**, suggests the Stanley Yankee Drill Driver. These holes are for inserting Star blue plug #60806 or equivalent. The drill also works with 3/16" carbide bits if you grind a notch in the shank to hold the bit in the chuck. You can then drill into cement block and other light masonry. The drill driver should be available locally from Stanley tool dealers, Part No. 41.

M-4002 Application



Mike Michalovic from our **New York Branch** uses this exposed mounting method for installing the M-4002 on structural steel. In industrial areas the thermostat is protected and aspiration provides good sensing.

Flexible Raceway for Polyethylene Tubing



The **Moline Branch Office** uses 2" flexible metallic raceway (F-1000-274, Page CM/63) for polyethylene tubing. We think this provides an interesting addition to our polyethylene conduit approach and is especially useful where multiple turns are required.

Since the orders for the new V-12345678 (control valve with special features, discussed in last month's *Construction News*) are jamming the facilities here at the main plant, we have enlisted the aid of **Roy Henneberry** to handle all orders and specification requests. Roy is Construction Superintendent in our **Halifax, Nova Scotia Branch Office**. The V-12345678 was designed by persons unknown employed by Olands Brewery in Canada (no doubt during an extended beer break)!

SOLDER PASTE (IN TUBES)



A few complaints have been received about the F-1000-266 solder paste (Page CM/92), claiming that it does not flow and tends to burn easily. We would like to suggest that a little care might be necessary in order to obtain a good, clean solder connection. To overcome any problems you may have been encountering, follow these directions:

1. Apply solder paste to the tubing surface.
2. Push into the fitting and turn the tubing or fitting slightly to distribute paste.
3. Heat the connection by applying torch slightly away from the point where the solder is to be applied.

By following these instructions the connection will be cleaned and the solder will flow freely for a good air-tight connection.

SAFETY FIRST!



"Well, Clyde, what was it you weren't wearing this time?"