

MAN160

Model 30014C

Photoelectric Rotary Pursuit User's Manual



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Description

The photoelectric rotary pursuit may be used to assess general perceptual motor learning across such parameters as handedness, transfer of training, distribution of practice, and hand-eye coordination. The subject's task is to follow a rotating light with a photocell tipped wand. The features of the 30014C provide the user with digital control and monitoring of many testing variables. The keypad interface and LCD display provide control over the speed of the disk, direction of rotation, test time, rest time, number of test cycles, and sensitivity of the photocell wand. During the test the unit monitors the time on target, time off target, number of target hits, number of revolutions completed, and number of test cycles remaining. The unit also allows for computer control and monitoring through a standard serial port connection.

Specifications

Power Supply:	15 VDC @ 2.6 A, 2.1mm center positive DC plug
Speed Range:	5 to 70 RPM
Speed Stability:	+/- 1%
Direction:	CW / CCW selectable
Test Time:	1 to 9,999 seconds with 1 second resolution
Rest Time:	1 to 9,999 seconds with 1 second resolution
# of Cycles:	1 to 99
Stimulus Sensitivity:	0 to 9 (9 = maximum sensitivity)
On Target Timer:	0 to 9,999 seconds with 1mS resolution
Off Target Timer:	0 to 9,999 seconds with 1mS resolution
Accuracy of Timers:	+/- 1mS
Revolution Counter:	0 to 9,999 revolutions with 1 revolution resolution
Target Hits:	0 to 9,999 target hits
External Control:	Software sold separately

Operating Instructions

1. Insert the desired template into the top of the 30014C.
2. Plug the photocell wand into the RCA jack marked "Stylus" on the rear of the 30014C.
3. Plug the DC plug of the power supply into the "15 VDC POWER" jack on the rear of the 30014C.
4. Plug the power supply into any convenient AC outlet and turn the power on. The display backlight and power light will come on. The company name and model number will be displayed for 2 seconds.

The numbers on the keypad are used to enter values for the control variables. As the values are entered, the numbers will scroll from right to left. If an incorrect value is entered, clear the value using the <RESET> key.

To maneuver through the various windows, use the <PREV> key to scroll the display to the previous window and the <NEXT> key to scroll the display to the next window. The <RESET> key is used to either reset the test or reset the value of the control variable that is currently displayed. The <DIREC> key is used to toggle the direction of rotation inbetween tests or while the "DIRECTION" window is displayed. The <SETUP> key is used to return from either of the test result windows to the "TEST TIME" window for modifications to control variables.

There are six setup windows that are individually displayed.

The **"TEST TIME"** window controls the number of seconds the test will run. The range of this value is 1 to 9,999 seconds.

The **"REST TIME"** window controls the number of seconds to rest between test times. The range of this value is 1 to 9,999 seconds.

The **"# OF TEST CYCLES"** window controls the number of cycles the test and rest time execute. The range of this value is 1 to 99 cycles.

The **"STIMULUS SENSITIVE"** window controls the sensitivity of the photocell wand. The range of this value is 0 to 9, with 0 as the minimum and 9 as the maximum sensitivity. This control has been provided to maintain an accurate record of time on target regardless of changes in ambient light. It is recommended to use a sensitivity setting of 5 for normal lit rooms. For bright rooms this should be reduced and for dark rooms this should be increased.

The **"DIRECTION"** window controls the direction of rotation for the disk. **"CW"** for clockwise rotation and **"CCW"** for counter-clockwise rotation. The <DIREC> key is used to toggle between the directions.

The **"RPM"** window controls the speed of rotation for the disk. The range of this value is 5 to 70 RPM. If a value below 5 RPM is entered, the unit will default to the 5 RPM minimum. If a value over 70 RPM is entered the unit will default to the 70 RPM maximum.

The **"PRESS RUN TO BEGIN"** window is the only window that allows for the <RUN> key to begin the test. There are two windows that are used to display the test results. The first window displays the amount of time the photocell wand is on and off of the light target. The second window displays the number of target hits (number of times the photocell wand was on the target), the number of completed revolutions, and the number of cycles remaining. With each additional test cycle, the values of the results will accumulate.

The **"TEST CYCLES RUNNING"** front panel light indicates that there are test cycles remaining. The **"ON TARGET"** front panel light indicates that the photocell wand is on the light target.

Parts Included

- 1 - 30014C Rotary Pursuit
- 1 - 30105A Photocell Wand
- 1 - 30108 Circle Template
- 1 - 30109 Square Template
- 1 - 30110 Triangle Template
- 1 - 15 VDC Wall Mount AC Adapter



Terms and Conditions

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Phone, Fax, Email or Mail-in Orders

All orders need to be accompanied by a hard copy of your purchase order. All orders must include the following information:

- Quantity
- Part Number
- Description
- Your purchase order number or method of pre-payment
- Your tax status (include tax-exempt numbers)
- Shipping address for this order
- Billing address for the invoice we'll mail when this order is shipped
- Signature and typed name of person authorized to order these products
- Your telephone number
- Your email address
- Your FAX number

Domestic Terms

There is a \$50 minimum order. Open accounts can be extended to most recognized businesses. Net amount due 30 days from the date of shipment unless otherwise specified by us. Enclose payment with the order; charge with VISA, MasterCard, American Express, or pay COD. We must have a hard copy of your purchase order by mail, E-mail or fax. Students, individuals and private companies may call for a credit application.

International Payment Information

There is a \$50 minimum order. Payment must be made in advance by: draft drawn on a major US bank; wire transfers to our account; charge with VISA, MasterCard, American Express, or confirmed irrevocable letter of credit. Proforma invoices will be provided upon request.

Exports

If ordering instrumentation for use outside the USA, please specify the country of ultimate destination, as well as the power requirements (110V/60Hz or 220V/50Hz). Some model numbers for 220V/50Hz will have a "C" suffix.

Quotations

Quotations are supplied upon request. Written quotations will include the price of goods, cost of shipping and handling, if requested, and estimated delivery time frame. Quotations are good for 30 days, unless otherwise noted. Following that time, prices are subject to change and will be re-quoted at your request.

Cancellations

Orders for custom products, custom assemblies or instruments built to customer specifications will be subject to a cancellation penalty of 100%. Payment for up to 100% of the invoice value of custom products may be required in advance. Cancellation for a standard Lafayette Instrument manufactured product once the product has been shipped will normally be assessed a charge of 25% of the invoice value, plus shipping charges. Resell items, like custom products, will be subject to a cancellation penalty of 100%.

Exchanges and Refunds

Please see the cancellation penalty as described above. No item may be returned without prior authorization of Lafayette Instrument Company and a Return Goods Authorization (RGA#) number which must be affixed to the shipping label of the returned goods. The merchandise should be packed well, insured for the full value and returned along with a cover letter explaining the reason for return. Unopened merchandise may be returned prepaid within thirty (30) days after receipt of the item and in the original shipping carton. Collect shipments will not be accepted. Product must be returned in saleable condition, and credit is subject to inspection of the merchandise.

>Returns

Instrumentation may not be returned without first receiving a Return Goods Authorization Number (RGA). When returning instrumentation for service,

please call Lafayette Instrument to receive a RGA number. Your RGA number will be good for 30 days. Address the shipment to:

Lafayette Instrument Company

3700 Sagamore Parkway North

Lafayette, IN 47904, USA.

Shipments cannot be received at the PO Box. The items should be packed well, insured for full value, and returned along with a cover letter explaining the malfunction. An estimate of repair will be given prior to completion ONLY if requested in your enclosed cover letter. We must have a hard copy of your purchase order by mail or fax, or repair work cannot commence for non-warranty repairs.

Damaged Goods

Damaged instrumentation should not be returned to Lafayette Instrument prior to a thorough inspection. If a shipment arrives damaged, note damage on delivery bill and have the driver sign it to acknowledge the damage. Contact the delivery service, and they will file an insurance claim. If damage is not detected at the time of delivery, contact the carrier/shipper and request an inspection within 10 days of the original delivery. Please call the Lafayette Instrument Customer Service Department for repair or replacement of the damaged merchandise.

Limited Warranty

Lafayette Instrument Company warrants equipment manufactured by the company to be free of defects in material and workmanship for a period of one year from the date of shipment, except as provided hereinafter. The original manufacturer's warranty will be honored by Lafayette Instrument for items not manufactured by Lafayette Instrument Company, i.e. resell items. This assumes normal usage under commonly accepted operating parameters and excludes consumable products.

Warranty period for repairs or used instrumentation purchased from Lafayette Instrument is 90 days. Lafayette Instrument Company agrees either to repair or replace, at its sole option and free of part charges to the customer, instrumentation which, under proper and normal conditions of use, proves to be defective within the warranty period. Warranty for any parts of such repaired or replaced instrumentation shall be covered under the same limited warranty and shall have a warranty period of 90 days from the date of shipment or the remainder of the original warranty period whichever is greater. This warranty and remedy are given expressly and in lieu of all other warranties, expressed or implied, of merchantability or fitness for a particular purpose and constitutes the only warranty made by Lafayette Instrument Company.

Lafayette Instrument Company neither assumes nor authorizes any person to assume for it any other liability in connection with the sale, installation, service or use of its instrumentation. Lafayette Instrument Company shall have no liability whatsoever for special, consequential, or punitive damages of any kind from any cause arising out of the sale, installation, service or use of its instrumentation. All products manufactured by Lafayette Instrument Company are tested and inspected prior to shipment. Upon prompt notification by the Customer, Lafayette Instrument Company will correct any defect in warranted equipment of its manufacture either, at its option, by return of the item to the factory, or shipment of a repaired or replacement part. Lafayette Instrument Company will not be obliged, however, to replace or repair any piece of equipment, which has been abused, improperly installed, altered, damaged, or repaired by others. Defects in equipment do not include decomposition, wear, or damage by chemical action or corrosion, or damage incurred during shipment.

Limited Obligations Covered by this Warranty

1. In the case of instruments not of Lafayette Instrument Company manufacture, the original manufacturer's warranty applies.
2. Shipping charges under warranty are covered only in one direction. The customer is responsible for shipping charges to the factory if return of the part is required.
3. This warranty does not cover damage to components due to improper installation by the customer.
4. Consumable and/or expendable items, including but not limited to electrodes, lights, batteries, fuses, O-rings, gaskets, and tubing, are excluded from warranty.
7. Failure by the customer to perform normal and reasonable maintenance on instruments will void warranty claims.
8. If the original invoice for the instrument is issued to a company that is not the company of the end user, and not an authorized Lafayette Instrument Company distributor, then all requests for warranty must be processed through the company that sold the product to the end user, and not directly to Lafayette Instrument Company.

Export License

The U.S. Department of Commerce requires an export license for any polygraph system shipment with an ULTIMATE destination other than: Australia, Japan, New Zealand or any NATO Member Countries. It is against U.S. law to ship a polygraph system to any other country without an export license. If the ultimate destination is not one of the above listed countries, contact us for the required license application forms.