



DPS-C Instrument Clusters

Catalog MSG33-5014/US



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Application

The DPS-C is a general purpose display for vehicle instrumentation. There is a standard electronic configuration and standard overlay. The end user can customize the DPS-C with a custom overlay and custom application software. By incorporating the new cluster, a wide range of industrial vehicles can be operated more efficiently for greater productivity.

Properties

Features

This versatile instrument cluster supports two CAN communication channels, as well as USB. The DPS-C has 18 digital inputs: 4 are active high with wake-up. There are 4 analog inputs, and 2 frequency inputs. For outputs the DPS-C has 2 high-side and 2 low-side. The outputs provide a maximum current of 2.5 A with pulse width modulation capabilities. Low-side outputs have analog feedback which provides open circuit, short to battery, and ground detection.

Reliability

The DPS-C cluster is ideal for various industrial and off-road vehicle applications, with five backlit gauges, 28 positions for LED status indicators (tell-tales) and a 3.5", transfective color LCD, 320 x 240 pixel screen. The robust enclosure is designed to be used in rugged environments, and has been tested to a suitable mix of standards based on the J1455, ISO, and EP455 environmental specifications. The connectors are rugged, environmentally sealed, Molex MX150 type.

General

Weight	1.2 kg
Temperature range	
- Operating, ambient	-20 to +60°C
- Storage, ambient	-40 to +85°C
Protection	IP69 (front), IP65 (rear)
Voltage supply	8 - 32 Vdc
Current (standby)	1 mA (12V), 2 mA (24V)

Communication

CAN (SAE J1939)	2
USB, B-port	1 (via separate cable)

Outputs

Digital out high-side	2
- Type	high-side switch
- Max load	2.5 A
- Max PWM frequency	200 Hz
Digital out low-side	2
- Type	low-side switch
- Max load	2.5 A
- Max PWM frequency	200 Hz

Inputs

Voltage inputs	4
- Signal range	0 - 5 Vdc
- Absolute error	2%
Frequency inputs	2
- Signal range	5 - 6500 Hz
Digital inputs	18
- Signal high	2.43 Vdc - V _{BAT}
- Signal low	0 - 0.80 Vdc

Ordering part numbers

DPS-C	0971001ECD
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Environmental protection**EMI**

J1455 Section 4.13.1, Over-voltage

J1455 Section 4.13.1, Reverse polarity

J1455 Section 4.13.1, Short circuit

ISO7637 Section 5.6.x, EP455 Section 5.11.x, Transients

EP455, ISO, J1113-41, EMC emissions

EP455, ISO, J1113-41, EMC susceptibility

ESD

EP455 Section 5.12, ESD (surface)

EP455 Section 5.12, ESD (connectors)

Chemical environment

MIL_STD 202G M101E-B, Salt spray

Mechanical environment

BS EN7691 Section 6.6.1, Random vibration

EP455 Section 5.14.2.2, Drop test

Climate environment

IEC 60529 Section 14.2.6, Water IP65 (rear only)

IEC 60529 Section 13.6.8, Water IP69 (front only)

IEC 68-2-2 Section 2, High temperature

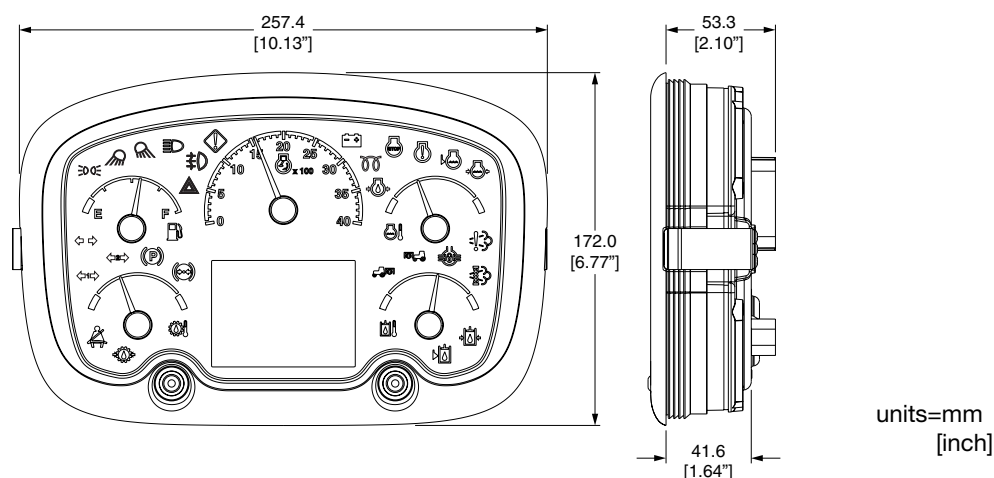
IEC 68-2-1 Section 2, Low temperature

EP455 Section 5.1.1, Temperature cycle

J1455 Section 4.1.3.2, Temperature shock

EP455 Section 5.13.2, Humidity soak

EP455 Section 5.13.1, Humidity cycle

**WARNING - USER RESPONSIBILITY**

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**WARNING - California Proposition 65**

This product can expose you to chemicals including VINYL CHLORIDE which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Parker Motion Systems International Sales Offices

North America

Motion Systems Group Headquarters

6035 Parkland Boulevard
Cleveland, OH 44124-4141 USA
Tel: 216-896-3000
Fax: 216-896-4031

Parker Canada Division

160 Chisholm Drive Milton
Ontario Canada L9T 3G9
Tel: 905-693-3000
Fax: 905-876-1958

Parker Hannifin de México

Industrial Hydraulic Sales
Eje Uno Norte No.100
Parque Industrial Toluca 2000
Toluca, Edo, de Mexico CP 50100
Tel: 52 722 275 4200
Fax: 52 722 279 9308

Parker Hannifin de México

Mobile Hydraulic Sales
Via de FFCC a Matamoros 730
Apodaca, NL, de Mexico CP 66600
Tel: 52 81 8156 6000
Fax: 52 81 8156 6068

Europe

Motion Systems Group Headquarters

La Tuilière 6
1163 Etoy - Switzerland
Tel: 41 21 821 8500
Fax: 41 21 821 8580

South Africa

Parker Hannifin Africa Pty Ltd

P.O. Box 1153
ZA-Kempton Park 1620,
Republic of South Africa
Tel: 27 11 961 0700
Fax: 27 11 392 7213

Mobile Sales

Mobile Sales Organization and Global Sales

850 Arthur Avenue
Elk Grove Village, IL 60007 USA
Tel: 847-258-6200
Fax: 847-258-6299

Industrial Sales

Central Region

1042 Maple Avenue
Unit 331
Lisle, IL 60532 USA
Tel: 630-964-0796

Great Lakes Region

6035 Parkland Boulevard
Cleveland, OH 44124-4141 USA
Tel: 216-896-2740
Fax: 866-498-7507

Gulf Region

20002 Standing Cypress Drive
Spring, TX 77379 USA
Tel: 817-473-4431
Fax: 888-227-9454

Southwest Region

700 S. 4th Avenue
Mansfield, TX 76063 USA
Tel: 817-473-9341
Fax: 817-473-2680

Mid Atlantic and Southeast Regions

1225 Old Alpharetta Road
Suite 290
Alpharetta, GA 30005 USA
Tel: 770-619-9767
Fax: 770-619-9806

Midwest Region

8145 Lewis Road
Minneapolis, MN 55427 USA
Tel: 763-513-3535
Fax: 763-544-3418

Northeast Region

P.O. Box 396
Pine Brook, NJ 07058 USA
Tel: 973-227-2565
Fax: 973-227-2467

Northwest Region

6458 North Basin Avenue
Portland, OR 97217 USA
Tel: 503-283-1020
Fax: 866-611-7308

Pacific Region

8460 Kass Drive
Buena Park, CA 90621
Tel: 714-228-2510
Fax: 714-228-2511

Asia Pacific

Parker Hannifin Shanghai Ltd

280 Yunqiao Road,
Jin Qiao Export Processing Zone
Shanghai 201206, China
Tel: 86 21 2899 5000
Fax: 86 21 6445 9917

Parker Hannifin Hong Kong Ltd

8/F, Kin Yip Plaza
9 Cheung Yee Street
Cheung Sha Wan, Hong Kong
Tel: 852 2428 8008
Fax: 852 2425 6896

Parker Hannifin Korea Ltd

9F KAMCO Yangjae Tower
949-3 Dogok1-dong, Gangnam-gu
Seoul, 135-860, Korea
Tel: 82 2 559 0400
Fax: 82 2 556 8187

Parker Hannifin India Pvt Ltd

Plot No. EL-26, MIDC
TTC Industrial Area
Mahape, Navi Mumbai, 400 709 India
Tel: 91 22 6513 7081
Fax: 91 22 2768 6841

Parker Hannifin Australia

Parker Hannifin Pty Ltd.
9 Carrington Road
Castle Hill, NSW 2154, Australia
Tel: 612 9634 7777
Fax: 612 9842 5111

Latin America

Parker Hannifin Ind. e Com. Ltda Hydraulics Division

Av. FredericoRitter, 1100
94930-000 Cachoeirinha RS, Brazil
Tel: 55 51 3470 6090
Fax: 55 51 3470 9281

Parker Hannifin Argentina S.A.I.C.

Stephenson 2711
1667-Tortuguitas-Malvinas Argentinas
Pcia. de Buenos Aires, Argentina
Tel: 54 3327 44 4129
Fax: 54 3327 44 4199

Pan American Division

7400 NW 19th Street, Suite A
Miami, FL 33126 USA
Tel: 305-470-8800
Fax: 305-470-8808

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Parker Hannifin Corporation
Electronic Controls Division
850 Arthur Avenue
Elk Grove Village, IL, 60007 USA
phone 800 221 9257
ecdinfo@parker.com
www.parker.com/ecd



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