The XP3740 range is the latest in a long line of driver’s digital display instruments (DDI). The range includes the following types:

- Speedometer
- Tachometer
- Brake Pipe Pressure Gauge
- Traction Current Meter
- Volt Meter
- Temperature Gauge
About
All types have the same mechanical footprint and display information is presented in the familiar form of a LED bar-graph with a digital numeric display. Each type is available in a wide range of inputs, outputs, supply and connector options.

Main Features:
- Direct replacement for Fischer style front mounting
- Highly visible LED “analogue” display dial
- EMC compliant
- Rugged aluminium case
- Backlit numerals
- Splash-proof
- Auto brightness that suits the ambient light conditions
- Many options, custom ranges...

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Typical Function

The XP3740 DDI mounts directly into the driver’s console and displays the relevant parameters of the vehicle on the front dial via a circular LED bar graph and a central digital display.

The DDI can be configured to operate at the nominal voltage of the vehicle. The instrument’s input signal(s) can be either analogue voltage, current loop, or frequency pulse.

The display dims automatically to suit the ambient light conditions. This function is controlled via a sensor on the front dial and can be custom configured via software to suit specific environments. The dial’s numerals are backlight for enhanced performance in low light.

Each unit is factory calibrated for optimum accuracy.

Examples of DDI Types

- **Pressure**
- **Twin BCP**
- **Traction/Regen**
- **Latchung Connector**
- **Circular Connector**
## Technical Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
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<tbody>
<tr>
<td>Operating Voltage</td>
<td>Vdc</td>
<td>Nominal 24 (16.8 - 30VDC)</td>
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<td></td>
<td></td>
<td>Nominal 48 (33.6 - 60VDC)</td>
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<td></td>
<td></td>
<td>Nominal 72, 110, 120 (50-150VDC)</td>
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<td>Power Consumption</td>
<td>W</td>
<td>8 max</td>
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<tr>
<td>Ambient Temperature Range - operating</td>
<td>ºC</td>
<td>-10 to 50 (EN51055 Class T1)</td>
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<tr>
<td>Ambient Temperature Range - storage</td>
<td>ºC</td>
<td>-10 to 85</td>
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<td>EMC Emissions</td>
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<td>Conducted EMI</td>
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<td>EN50121-3-2 Table 3</td>
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<td>Radiated EMI</td>
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<td>EN50121-3-2 Table 6</td>
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<td>EMC Immunity to (Criterion A):</td>
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<td>Electrostatic Discharges</td>
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<td>EN61000-4-2</td>
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<td>Radiated Fields</td>
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<td>EN61000-4-3</td>
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<td>Conducted Disturbances</td>
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<td>EN61000-4-6</td>
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<td>Variations of Voltage Supply</td>
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<td>EN50155</td>
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<tr>
<td>Shock and Vibration</td>
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<td>IEC 61373 Cat 1, Class B</td>
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<td>MTBF (MIL-HDBK-217F–Notice 2,</td>
<td>hrs</td>
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<td>Ground Benign, T_a = 30°C, T_j = 50°C)</td>
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<tr>
<td>Dimensions (L x W x H)</td>
<td>mm</td>
<td>110 x 108 x 99*</td>
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<td>Degree of Protection, (Installed)</td>
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<tr>
<td>Mass</td>
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<td>700*</td>
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<td>Mounting</td>
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<td>M6 studs on rear</td>
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<tr>
<td>Connection</td>
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<td>M6 brass studs*</td>
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<td>Industry Standard</td>
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<td>EN50155</td>
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</table>

*varies depending on specific model options  
**protection from front sidehrs390,000 Operating
Ordering Information

Model No. Example: XP3740-Sb-160c-Z

Aux. Supply:
- 12 VDC
- 24 VDC
- 48 VDC
- 72 VDC
- 110 VDC
- 120 VDC

Type:
- Speed
- Pressure
- Voltage
- Current
- Tacho
- Temperature

Range (FSD):
- 60
- 80
- 100
- 120
- 150
- 180
- 210
- 1500
- 2000
- 2400
- 4000

±1500A REGEN/TRAC
±2000A REGEN/TRAC
±2400A REGEN/TRAC
±4000A REGEN/TRAC
750
1200
1500
750 kPa twin BCP
1200 kPa twin BCP
1500 kPa twin BCP
750 kPa twin MR/BPP
1200 kPa twin MR/BPP
1500 kPa twin MR/BPP
2000 rpm
4000 rpm
6000 rpm
100
150
100 VDC
150 VDC
400 A
1000 A

Options (append as required):
- no options
- Z: IP 54 front and rear
- T: latching input connector, IP 65
- C: circular input connector, IP 65
- M1: alternate LED pattern
- V: overspeed indication
- R: all red LEDs
- L: large numerals
- W: white bezel
- etc.

Input:
- a: analogue DC 0-10 V 0-100% scale
- c: analogue DC 0-12 V 0-100% scale
- d: analogue DC 0-4 V 0-100% scale
- f: current loop 4-20 mA
- h: frequency pulse 1
- g: frequency pulse 2