






# TECHNICAL DATASHEET

## CHALLENGER 15i

Remote PC Terminal for hazardous areas - zone 1/2 (Gas), -22 (Dust)

### Displays

All the CHALLENGER displays - components of our Remote PC terminal – are especially designed for hazardous areas zone 1 / 2. Performed as intrinsically safe panel mount module all our displays could be easily integrated in our FHP-housing or in existing housings or walls. Supported by our data transmission all CHALLENGER displays visualize the software in a brilliant picture quality in the plant.

Article Code	Product Description	Technical Description
<b>15i-2-FMO</b> 	<b>FIELD MONITOR 15" for hazardous areas zone 1/2</b> <ul style="list-style-type: none"> <li>- TFT display as intrinsically safe module</li> <li>- 15.1 inch screen diagonal</li> <li>- Glass front with an anti-reflective chemical coating</li> <li>- XGA resolution (1024 x 768 pixel)</li> <li>- 16 million colours</li> <li>- Up to 250 cd/m<sup>2</sup></li> <li>- Contrast 250:1 (typ.)</li> <li>- Wide angle to view (160°)</li> <li>- Long life CCFL-lights</li> <li>- Covered by aluminium front frame and glass pane</li> <li>- Glass front with an anti-reflective chemical coating</li> </ul>	<ul style="list-style-type: none"> <li>- Panel Mount design</li> <li>- Operating temperature range -10°C to +60°C</li> <li>- Extendable to -30°C to +60°C</li> <li>- Ingress protection IP 66/NEMA 4X from front</li> <li>- ATEX: DMT 00 ATEX E 089 X, II 2G EEx ib IIC T4</li> <li>- UL/cUL-listed: Class I, Zone 1, AEx ib IIC T4, Ex ib IIC T4, File E 232869</li> <li>- UL/cUL-listed: Class I, Div. 2, Groups A,B,C,D T4 File E 232869</li> <li>- GOST-R/GGTN, IECEx, TIIS, NEPSI...certified</li> </ul>
<b>15i-2-FMO-HB</b> 	<b>FIELD MONITOR 15" HIGH BRIGHTNESS (650cd/m<sup>2</sup>) for hazardous areas zone 1/2</b> <ul style="list-style-type: none"> <li>- TFT display as intrinsically safe module</li> <li>- 15.1 inch screen diagonal</li> <li>- XGA resolution (1024 x 768 pixel)</li> <li>- 16 million colours</li> <li>- Up to 650 cd/m<sup>2</sup></li> <li>- Contrast 500:1 (typ.)</li> <li>- Wide angle to view (160°)</li> <li>- Long life CCFL-lights</li> </ul>	<ul style="list-style-type: none"> <li>- Panel Mount design</li> <li>- Covered by aluminium front frame and glass pane</li> <li>- Glass front with an anti-reflective chemical coating</li> <li>- Operating temperature range -10°C to +60°C</li> <li>- Extendable to -30°C to +60°C</li> <li>- Ingress protection IP 66/NEMA 4X from front</li> <li>- ATEX: BVS 05 ATEX E 020, II 2G EEx ib IIC T4</li> <li>- GOST-R/GGTN, IECEx, TIIS, NEPSI...certified</li> </ul>
<b>TS-15i</b> 	<b>FIELD MONITOR 15" with TOUCH SCREEN for hazardous areas zone 1/2</b> <ul style="list-style-type: none"> <li>- TFT display as intrinsically safe module</li> <li>- 15.1 inch screen diagonal</li> <li>- Resistive 5-wire touch screen</li> <li>- Can be operated with gloves, stylus or fingers</li> <li>- XGA resolution (1024 x 768 pixel)</li> <li>- 16 million colours</li> <li>- Up to 250 cd/m<sup>2</sup></li> <li>- Contrast 250:1 (typ.)</li> <li>- Wide angle to view (160°)</li> <li>- Long life CCFL-lights</li> <li>- Covered by aluminium front frame and glass pane</li> <li>- Foil or glass cover sheet</li> </ul>	<ul style="list-style-type: none"> <li>- Panel Mount design</li> <li>- Operating temperature range -10°C to +60°C</li> <li>- Extendable to -30°C to +60°C</li> <li>- Ingress protection IP 66/NEMA 4X from front</li> <li>- ATEX: TÜV 02 ATEX X 1959 II 2G EEx ib IIC T4</li> <li>- UL/cUL-listed: Class I, Zone 1, AEx ib IIC T4, Ex ib IIC T4, File E 232869</li> <li>- UL/cUL-listed: Class I, Div. 2, Groups A,B,C,D T4 File E 232869</li> <li>- GOST-R/GGTN, IECEx, TIIS, NEPSI...certified</li> </ul>
<b>18i-FMO</b>	<b>FIELD MONITOR 19" for hazardous areas zone 1/2</b>	<ul style="list-style-type: none"> <li>- Ingress protection IP66/NEMA 4X from front</li> </ul>



- TFT display as intrinsically safe module
- 19 inch screen diagonal
- Glass front with an anti-reflective chemical coating
- SXGA resolution (1280 x 1024 pixel)
- 16 million colours
- Up to 250 cd/m<sup>2</sup>
- Contrast 250:1 (typ.)
- Wide angle to view (160°)
- Long life CCFL-lights
- Covered by aluminium front frame and glass pane

- ATEX: DMT 00 ATEX E 089 X, II 2G EEx ib IIC T4
- UL/cUL-listed: Class I, Zone 1, AEx ib IIC T4, Ex ib IIC T4, File E 232869
- UL/cUL-listed: Class I, Div. 2, Groups A,B,C,D T4 File E 232869
- GOST-R/GGTN, IECEx, TIIS, NEPSI...certified

#### 18i-FMO-HB

#### FIELD MONITOR 19" HIGH BRIGHTNESS (650cd/m<sup>2</sup>) for hazardous areas zone 1/2



- TFT display as intrinsically safe module
- 19 inch screen diagonal
- SXGA resolution (1280 x 1024 pixel)
- 16 million colours
- Up to 650 cd/m<sup>2</sup>
- Contrast 500:1 (typ.)
- Wide angle to view (160°)
- Long life CCFL-lights
- Covered by aluminium front frame and glass pane
- Glass front with an anti-reflective chemical coating

- Panel Mount design
- Operating temperature range -10°C to +60°C
- Extendable to -30°C to +60°C
- Ingress protection IP 66/NEMA 4X from front
- ATEX: DMT 00 ATEX E 089 X, II 2G EEx ib IIC T4
- UL/cUL-listed: Class I, Zone 1, AEx ib IIC T4, Ex ib IIC T4, File E 232869
- UL/cUL-listed: Class I, Div. 2, Groups A,B,C,D T4 File E 232869
- GOST-R/GGTN, IECEx, TIIS, NEPSI...certified

#### TS-18i

#### FIELD MONITOR 19" with TOUCH SCREEN for hazardous areas zone 1/2



- TFT display as intrinsically safe module
- 19 inch screen diagonal
- Resistive 5-wire touch screen
- Can be operated with gloves, stylus or fingers
- SXGA resolution (1280 x 1024 pixel)
- 16 million colours
- Up to 250 cd/m<sup>2</sup>
- Contrast 250:1 (typ.)
- Wide angle to view (160°)
- Long life CCFL-lights
- Covered by aluminium front frame and glass pane
- Foil or glass cover sheet

- ATEX: TÜV 02 ATEX X 1959 II 2G EEx ib IIC T4
- UL/cUL-listed: Class I, Zone 1, AEx ib IIC T4, Ex ib IIC T4, File E 232869
- UL/cUL-listed: Class I, Div. 2, Groups A,B,C,D T4 File E 232869
- GOST-R/GGTN, IECEx, TIIS, NEPSI...certified

Technical data sheets are subject to modifications and amendments / No liability for misprints and errors.