

## INDUSTRIAL SOLUTIONS



### CONRAC 60xx ID ATC

Air Traffic Control Monitors  
17", 18", 19", 23", 28" and 30" LCD/TFT Displays

CONRAC's 60xx ID ATC series of high resolution multi frequency LCD/TFT-displays for ATC/ATM applications is supplied as cabinet, rack/console mount versions or as chassis-only - designed for easy integration.

CONRAC GmbH stands for High Performance Displays for specific applications. Own R&D, production and service at the German headquarters guarantee highest quality standards.

The use of high grade industrial components, modular construction, robust aluminium casing make the displays the perfect choice for 24h operation in demanding applications.

**TEC**  
CONRAC Technology

**ALC**  
Ambient Light Control

**BWE**  
Black and White Expansion

**DCC**  
Dynamic Contrast Control

**DNC**  
Dynamic Noise Control

**DPR**  
Dynamic Pixel Refreshing

**LTE**  
Life Time Expansion

**PXS**  
Pixel Shifting

**SPM**  
Soft Picture Mode

**TMM**  
True Movie Mode

## FEATURES

### CONRAC COS (Customised Operation System)

Special control concept allowing set-up of brightness via potentiometer or hot-keys, RS232, RS422 or IR-remote control

### Special backlight control

Allows to compensate loss of brightness of the backlight (active decay compensation)

### High resolution

Resolution formats of up to 2048 x 2048 ideally suited for Air Traffic Control applications

### High contrast and flicker-free image

Reduced strain for the user's eyes

### Universal proprietary controller

Flexible solutions (DVI, VGA, CVBS and S-Video inputs)

### Robust aluminium housing

Specially designed for air traffic control applications

Enhanced shock & vibration resistance as well as extended temperature range

High lifetime in critical ambient conditions

### Integrated counter for hours of operation

Easy to plan maintenance

### Conrac electronics and design

In-house R&D ensures long term availability

## TECHNICAL DATA

	17" 6017 ID ATC	18" 6018 ID ATC
<b>DISPLAY</b>		
Panel type:	Full colour active matrix TFT	Full colour active matrix TFT
Active screen dimensions (horizontal x vertical):	337,9 x 270,3 mm	359 x 287 mm
Resolution (pixel):	1280 x 1024	1280 x 1024
Format:	5:4	5:4
Brightness (typical):	250 cd/m <sup>2</sup>	260 cd/m <sup>2</sup>
Contrast ratio (typical):	500:1	400:1
Number of colours:	16.7 Mio	16.7 Mio
Viewing angle (horizontal and vertical):	±85°	±80°
Backlight:	CCFL	CCFL

<b>INTERFACE BOARD</b>		
Horizontal frequency:	30 – 80 kHz	15 - 85 kHz
Vertical frequency:	50 – 85 Hz	50 - 85 Hz
Pixelclock:	up to 165 MHz	up to 140 MHz
Inputs:	PC analog:	PC analog
	PC digital:	PC digital
	Y/C:	Y/C
	S-Video:	S-Video
	RS232:	x
	RS485:	-
Controls:	Keys:	x
	Potentiometer (wide dimming range):	x
	Serial Interface:	x
	Parallel Interface:	-

<b>ENVIRONMENTAL CONDITIONS</b>		
Temperature (operating):	0°C - 50°C	0°C - 50°C
Temperature (non-operating):	-20°C - 60°C	-20°C - 60°C

<b>POWER</b>		
Power supply:	86 - 240V AC	86 - 240V AC
Power consumption:	< 80 W	< 80 W

<b>APPROVALS</b>		
Safety:	EN60950, CE	EN60950, CE

<b>SUPPLIED ACCESSORIES</b>		
Video cable:	VGA	VGA
Power cable:	x	x
Documentation (Operating Manual):	x	x

<b>VERSIONS</b>		
Cabinet:	Rack with Bracket	Cabinet
Rack:	Rack	Rack
Chassis:	-	-

19" 6019 ID ATC	23" 6023 ID ATC	28" 6028 ID ATC	30" 6030 ID ATC
Full colour active matrix TFT 376 x 301 mm 1280 x 1024 5:4 300 cd/m <sup>2</sup> 700:1 16.7 Mio ±85° CCFL	Full colour active matrix TFT 470 x 352 mm 1600 x 1200 4:3 250 cd/m <sup>2</sup> 500:1 16.7 Mio ±85° CCFL	Full colour active matrix TFT 503,808 x 503,808 mm 2048 x 2048 1:1 225 cd/m <sup>2</sup> <b>NEW</b> 1000:1 16.7 Mio ±85° CCFL	Full colour active matrix TFT 641,28 x 400,8 mm 2560 x 1600 16:10 400 cd/m <sup>2</sup> 850:1 16.7 Mio ±89° @ CR10 CCFL

30 - 80 kHz 50 - 85 Hz up to 165 MHz PC analog PC digital Y/C S-Video RS232 - x x x -	30 - 80 kHz 50 - 85 Hz up to 165 MHz PC analog PC digital Y/C S-Video RS232 - x x x -	30 - 150 kHz 50 - 100 Hz up to 380 MHz PC analog PC digital - - RS232 RS485 x - x x	74 kHz 60 Hz up to 135 MHz - PC digital - - - - - x - x -
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0°C - 50°C -20°C - 60°C	0°C - 50°C -20°C - 60°C	0°C - 40°C -20°C - 60°C	0°C - 40°C -20°C - 60°C
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86 - 240V AC < 80 W	86 - 240V AC < 100 W	86 - 240V AC < 150 W	86 - 240V AC < 200 W
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EN60950, CE	EN60950, CE	EN60950, CE	EN60950, CE
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VGA x x	VGA / DVI x x	DVI x x	DVI x x
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Cabinet Rack Chassis	Cabinet Rack Chassis	Cabinet - Chassis	Cabinet - Chassis
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VERSIONS

60xx ID Cabinet version

Dimensions (H x W x D):

- 6017 ID ATC: Rack version + Bracket
- 6018 ID ATC: 345 x 449 x 89 mm
- 6019 ID ATC: 400 x 475 x 200 mm
- 6023 ID ATC: 510 x 600 x 120 mm
- 6028 ID ATC: 633 x 671 x 169 mm
- 6030 ID ATC: 512 x 752 x 134 mm



19" / 23"

28"

30"

60xx ID Rack version

Dimensions (H x W x D):

- 6017 ID ATC: 400 x 460 x 71 mm
- 6018 ID ATC: 345 x 483 x 91 mm
- 6019 ID ATC: 444 x 483 x 82 mm
- 6023 ID ATC: 533 x 584 x 98 mm



18"



17" / 19" / 23"

60xx ID Chassis version

Dimensions (H x W x D):

- 6019 ID ATC: 341 x 420 x 88 mm
- 6023 ID ATC: 438 x 539 x 107 mm
- 6028 ID ATC: 613 x 616 x 130 mm
- 6030 ID ATC: t.b.d.



19" / 23"



28"

OEM versions

Customized versions available on request.

OPTIONS \*

\*Please note: Not all options may be combined.

Desk Stand

Bracket



Technical specification subject to change without prior notice. GM 660.0130, is\_60xxidATC\_rev02

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