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HMI Graphics – Colour Standards (Online Edition)

## Introduction

Intelligent Plant configure and deploy graphics to remotely monitor the performance of onshore and offshore receiving facilities. This brochure details the colour standards used in Gestalt  $PnID^{TM}$  by Intelligent Plant, thus enabling all graphics produced to appear the same. These standards are a move to enhance user experience and should be promoted as such to all prospective clients.

## Page Set-Up

The aspect ratio used for our graphics is 16:9 with a screen pixel size of 1920x1080. This is the convention used to fit current monitors (Gestalt PnID<sup>TM</sup> has the functionality to 'Zoom to Fit' any screen size without precision loss).



NOTE: Check the aspect ratio on client's laptop, desktop monitor, IOC or ACE Room screens. These may differ from 16:9 to 16:10.

## Quick Reference Guide

Graphic – Type	Size	Colour
Screen Size	Aspect Ratio – 16:9 (1920x1080px)	-
Drawing Limits	Aspect Ratio - 16:9 (1896x996px)	-
Background Colour		Blue - #002140
Process Lines – Solid	Major – 4px / Minor – 2px	Blue - #506A85
Instrumentation Lines - Dashed	Dash-Length & Dash Spacing - 4px	Blue - #40556A
Font Type	Verdana	Various
Title	56px	Grey - #717073
Text – Line Descriptor	16px	Grey - #717073
Text – Vessel Descriptor	16px	Grey - #717073
Text – Value Animation	14px	Grey - #AFABAB
Text - Instrumentation	10px	Blue - #40556A

## Colour Specification

Unless specified by the client, please follow these guidelines.

#### Background

Screen background colour is shown as blue (#002140)



## Text - Type Verdana

#### Page Title

Font size is 56px and is shown as grey (#717073)

Title - 56px

#### Line Descriptors

Font size is 16px and is shown as grey (#717073)

**Process Line (From)** 

#### Link Descriptors

Font size is 16px and is shown as grey (#717073) encased in a rectangle shown as blue (#40556A). Alpha property for blue rectangle set at 0.2.

**Process Line (To)** 

## Text (cont'd)

#### Vessel Descriptors

Font size is 16px and is shown as grey (#717073)



#### Instrumentation Text

Font size is 10px and is shown as blue (#40556A)

33.3 Barg 🗀



#### Value Animation Text

Font size is 14px and is shown as grey (#AFABAB)

**33.3 Barg** ⊟



## Linework

#### Line Weight

- A major line is 4px and is shown as blue (#506A85)
- A minor line is 2px and is shown as blue (#506A85)
- An instrumentation dashed line is 1px and is shown as blue (#40556A)

NOTE: Dash length & dash spacing are both set at 4px

4pxMajor2pxMinor1pxInstrumentation

### Valves

#### Valve Open

• A filled icon is shown as blue (#506A85). A 1px circle icon will show the state of the valve. Circle linework colour is shown as blue (#40556A)

#### Valve Closed

• 2px linework icon is shown as blue (#506A85). A 1px square icon will show the state of the valve. Square linework colour is shown as blue (#40556A)

#### Valve Travelling

• 2px linework icon is shown as blue (#506A85). A triangle icon will show the state of the valve. Triangle linework colour is shown as blue (#40556A), fill colour is shown as yellow (#FFC90E)

#### Valve Questionable

• 2px linework icon is shown as blue (#506A85). A question mark will show the state of the valve. Font size is 20px, font colour is shown as magenta (#FF0088)









## Valves (cont'd)

#### Choke/Anti-Surge Valve Open

• A filled icon is shown as blue (#506A85). A 1px circle icon will show the state of the valve. Circle linework colour is shown as blue (#40556A)

#### Choke/Anti-Surge Valve Questionable

• 2px linework icon is shown as blue (#506A85). A question mark will show the state of the valve. Font size is 20px, font colour is shown as magenta (#FF0088)

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## Pumps

Pumps may have several states:

- Start / Stop
- Running / Stopped (Not Running)
- Open / Closed

The pump is a 2px linework icon and is shown as blue (#506A85)

- A filled triangle icon within the pump, pointing to the right shows either:
  - Start / Running / Open. Fill colour is shown as blue (#506A85)
- A 1px linework triangle icon within the pump, pointing to the left shows either:
  - Stop / Stopped (Not running) / Closed. Line colour is shown as blue (#506A85)
- · A question mark within the pump, shows that the pump is not working
  - o Font size is 28px, font colour is shown as magenta (#FF0088)



NOTE: Icon size within the pump can be changed depending on pump size

## Compressors

A compressor state will be either:

- o Running
- Stopped

The compressor is a 2px linework icon and is shown as blue (#506A85)

- A filled triangle icon within the compressor, pointing to the right shows:
  - o Running. Fill colour is shown as blue (#506A85)
- A 1px linework triangle icon within the compressor, pointing to the left shows:
  - o Stopped. Line colour is shown as blue (#506A85)
- A question mark within the compressor, shows that the compressor is not working
  - o Font size is 28px, font colour is shown as magenta (#FF0088)



## Vessels

A vessel is a 2px linework icon and is shown as blue (#506A85)

• Vessel descriptor font size is 16px, font colour is shown as grey (#717073) Fill animation colour is shown as blue (#506A85)



NOTE: Vessels and fill animations can vary in size depending on page content

## Value Animations

Value animations appear alongside instrumentation text and indicate process flow, level, pressure or temperature in real time.

- Instrumentation text font size is 10px and is shown as blue (#40556A)
- Value animation text font size is 14px and is shown as grey (#AFABAB)

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PI 12346
TI 12345
FI 12345

## Sparkline-Genie

The sparkline genie consists of:

#### Axis

- 1px axis linework continuous and dashed lines (dash length and spacing 4px)
- Axis text font size is 6px and is shown as blue (#40556A)

#### Text

- Tag descriptor font size is 10px and is shown as blue (#40556A)
- Value animation font size is 14px and is shown as grey (#AFABAB)

#### Sparkline (Trend)

• 1px line is shown as blue (#506A85)

#### Fill Animation

• Fill shown is shown as blue (#506A85)



## Sparkline-Genie (cont'd)

How it works:

The sparkline (Trend) and fill animation changes colour depending on its state.

A real-time value of 50.0 shows that the tag is performing at optimum state. When it deviates from this, a priority colour state indicates the data state

- Priority 1 state is shown as red (#CC0000)
- Priority 2 state is shown as yellow (#FFC90E)
- Priority 3 state is shown as cyan (#00FFFF)
- Questionable state is shown as magenta (#FF0088)



NOTE: Sparkline Genies can vary in size depending on page content

## Cheat Sheet

The Cheat Sheet allows new users a short cut that allows a copy and paste from the sheet into a new page.

To do this a user should have two instances of Gestalt  $PnID^{TM}$  open, one being the cheat sheet the other their new page. Both should be in edit mode. Copy and paste from one page to another. Use the grid on the canvas and snap pixels option to help place the copied shapes and text precisely to their new location.

Alternatively open the cheat sheet and SaveAs with a new name in the folder of your choice. You can then just delete what is not required in this page.

## Intelligent Plant

## **Cheat Sheet**









**Vessel Name Descriptor** 

Process Line (From)

Text in a Table

Text Animations

Vessel Highlight Numbering Text - 14px

#### Instrumentation

XXX.X barg XXX.X DegC

XXX.X bar XXX.X m3

XXX.X % XXX.X m3/hr

**Axis & Tables** 

Dashed Line

50.0

#### **Center Justified**

**Xxxxx** - **16px** 

Xxxxx - 14px

Xxxxx - 14px / Xxxxx - 16px

Vessel Highlight Numbering Text - 14px

Xxxxx - 14px

XXX.X barg XXX.X DegC XXX.X m3/hr

XXX.X bar XXX.X % XXX.X m3

#### **Right Justified**

Xxxxx - 14px

Xxxxx - 14px Ххххх - 16рх

Vessel Highlight Numbering Text - 14px

Xxxxx - 14px

XXX.X barg XXX.X DegC XXX.X m3/hr

XXX.X bar XXX.X % XXX.X m3

#### Colours

Shades of Blue

#002140













**Priority/Abnormal Colour States** 







XXX.X barg

XXX.X %

XXX.X m3/hr



## Questionable

**Home Page Links** 

#### **Process Linework**

Text 14px

XXXXX

XXXXX

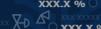
XXXXX

XXXXX

Vessels















XXX.X barg

XXX.X DegC

XXX.X %

XXX.X barg

XXX.X DegC

XXX.X %



XXX.X barg

XXX.X DegC

XXX.X %

XXX.X m3/hr 🖯

XXX.X m3/hr







XXX.X m3/hr

XXX.X m3/hr













XXXXXXXX

**XXXXXXXX** 

XXXXXXX

**XXXXXXXX** 

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**XXXXXXXX** 

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XXXXXXXX

**XXXXXXXX** 

XXXXXXXX

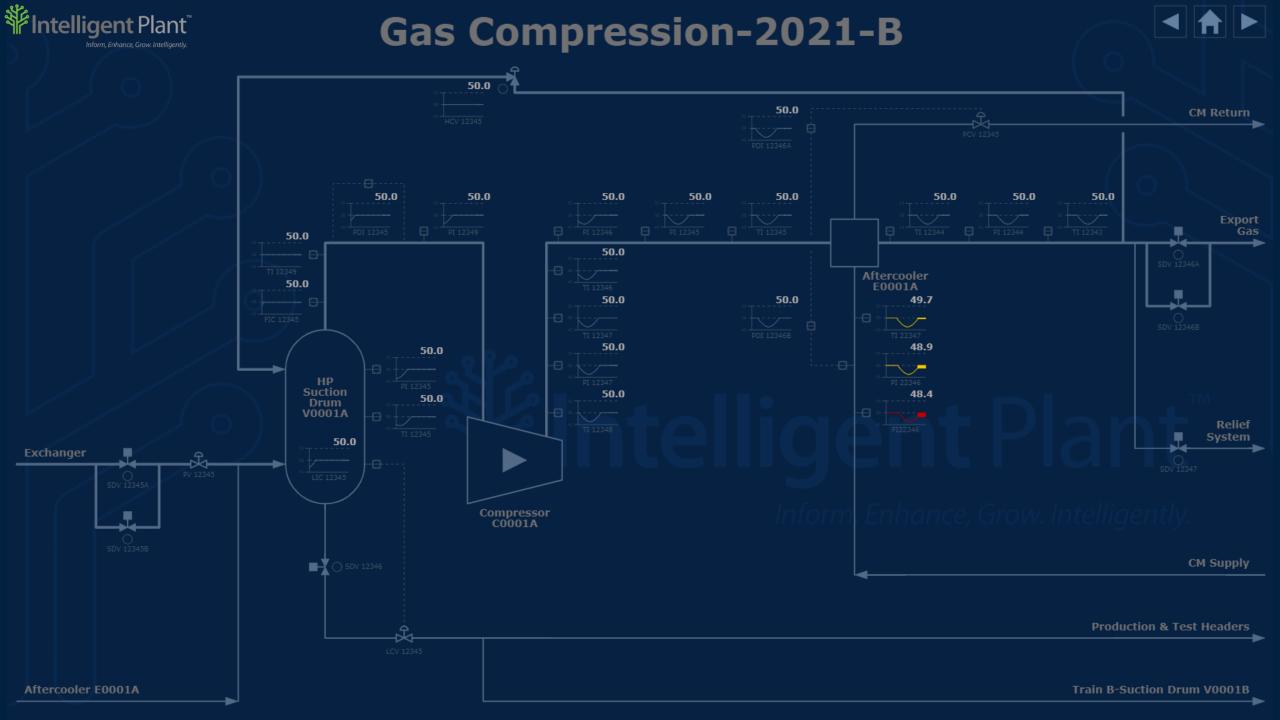
**XXXXXXXX** 

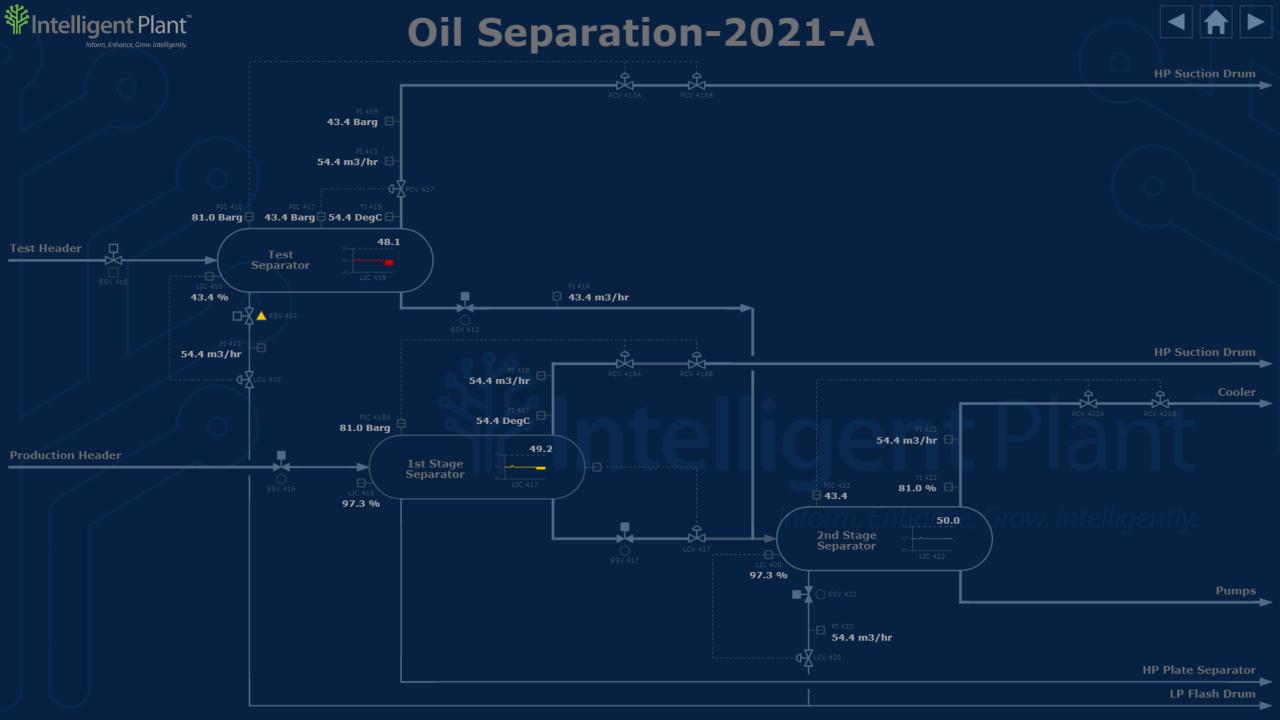
## Intelligent Plant - Graphics

Take a look at some of the graphics we've created in Gestalt  $PnID^{TM}$  using these colour standards.

# \*\*Intelligent Plant

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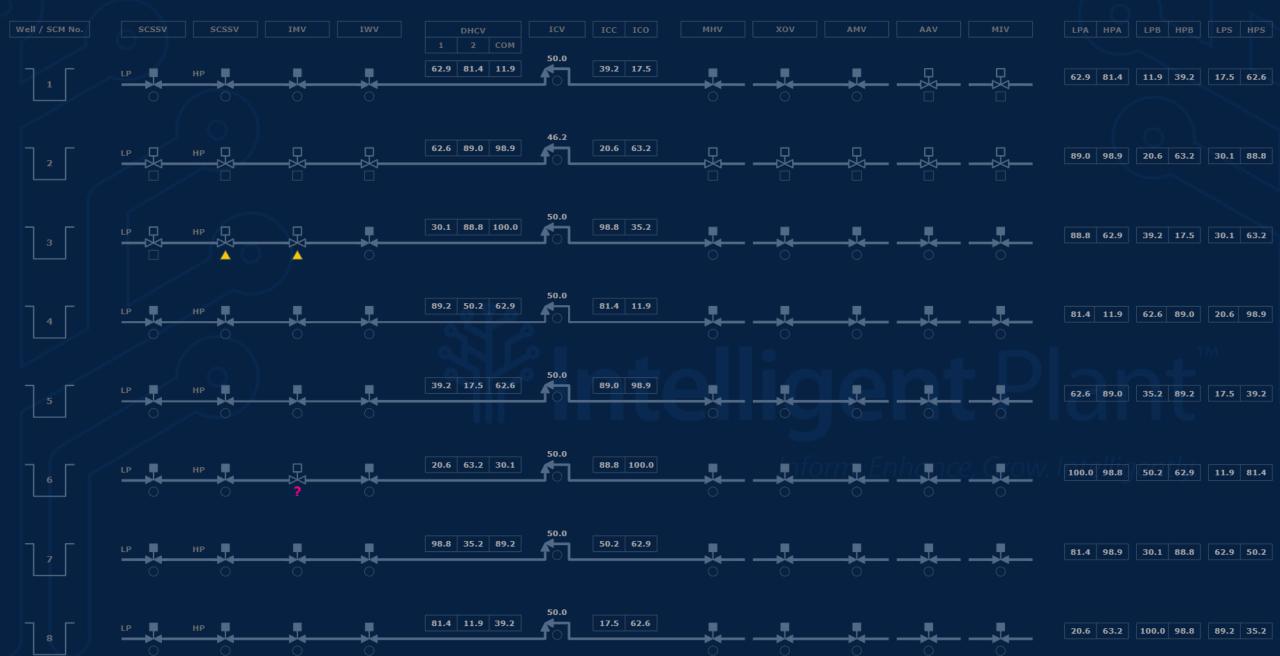




## Valve Overview-2021







## **♯Intelligent** Plant

## Wind Farm







Logic and

Alarms



Generator

System

(Tower)

Switchgear &

Transformer

System

Hydraulic

System

Cooling

System

General

Overview

Wind Turbine

Gearbox

Machinery

Enclosure

Protection

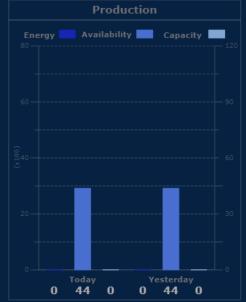
Converter

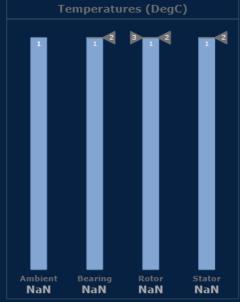
## **¥Intelligent Plant**®

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	Temperature (DegC)	Rain Probability (%)					
1000	0	0	4	6			
1300	0	0	<b>(7)</b>	8			
1600	0	0	(8)	10			
1900	0	0	(8)	10			
2200	0	0	6	9			
0100	0	0	(5)	7			
0400	0	0	6	7			

## **Wind Turbine Overview**

Active Alarms						
1	NaN	16	NaN			
	NaN	17	NaN			
3	NaN	18	NaN			
	NaN	19	NaN			
5	NaN	20	NaN			
	NaN	21	NaN			
7	NaN	22	NaN			
	NaN	23	NaN			
9	NaN	24	NaN			
10	NaN	25	NaN			
11	NaN	26	NaN			
12	NaN	27	NaN			
13	NaN	28	NaN			
14	NaN	29	NaN			
15	NaN	30	NaN			

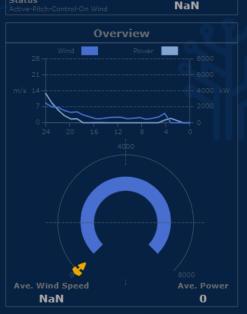




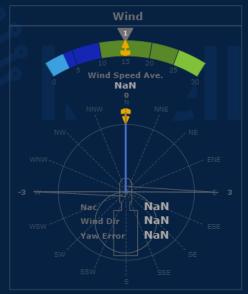


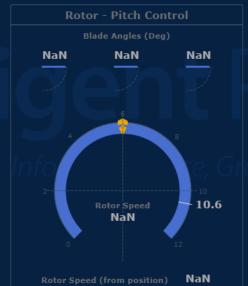
**PV** Curve

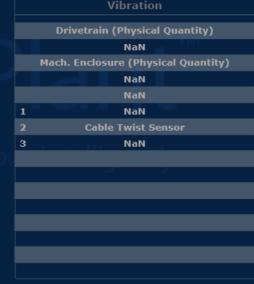




General







Wind Farm Overview

0700

0

Machinery Wind Turbine Enclosure



8

Drivetrain Gearbox



Converter

#### Alarms Generator System

Structure (Tower)

Switchgear & Transformer

Rotor System

Hydraulic System

Pitch

Cooling

System

Yaw System

Logic and Alarms



## **Machinery Enclosure (Nacelle)**







**Position from Yaw Encoder** 











Wind Turbine Overview

Wind Turbine Gearbox

General

Drivetrain

Control & Protection

Alarms Generator System

Structure (Tower)

Switchgear & Transformer

Rotor System Hydraulic

System

Yaw System Pitch Cooling

System

Logic and Alarms

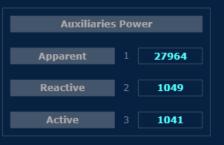


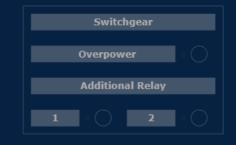
## **Switchgear and Transformer**



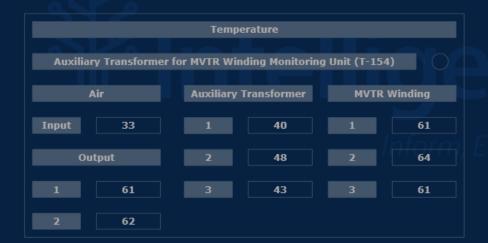












Wind Farm Overview

Machinery Enclosure Wind Turbine Overview

Wind Turbine Gearbox

General

Drivetrain

Control & Protection

Converter

Alarms

Generator System

Structure (Tower)

Switchgear &

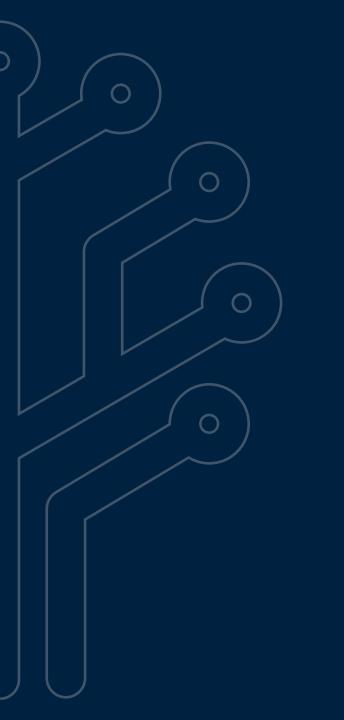
Rotor System

Hydraulic System

Pitch

Cooling System Yaw System

Logic and Alarms





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