

**HYCONTROL**  
LEVEL MEASUREMENT SOLUTIONS



**HMI SYSTEMS**

**TOUCHSCREEN DISPLAY,  
RECORDER & CONTROL PANELS**

# HMI SYSTEMS - DISPLAY AND CONTROL

**Hycontrol HMI Systems** utilise the latest in touchscreen technology to provide users with **advanced control and information options where it is needed most**. The illuminated, full-colour HMI display screen provides easy-to-read interfaces, with wide viewing angles for the best all-around data viewing. The touchscreen interface provides fast, easy access to recorder menus making setup and data analysis quick and efficient. Navigation through the menus and setting of parameters are both direct and intuitive.

**These units are utilised on a range of applications, providing clear indication and alarm functions for multiple tank contents on products ranging from solvents and chemicals to sands and oils.** Additional HMIs can be linked to the main panel as mimic displays, as well as the option for PC connections via VNC and to remotely view the mimic screen on PC via the LAN. This allows data to be shared throughout the site as required. Data can also be exported to a USB stick.



- ◆ Modern, clear 10" touch-sensitive screen
- ◆ Range of IP-rated housing options
- ◆ Programmable scales, titles, units and alarms
- ◆ Instant trend viewing display
- ◆ Option for duplicate connected screens
- ◆ Intuitive display and set-up
- ◆ 4-20 mA and digital inputs
- ◆ HLA, HHLA, & LLA alarm settings
- ◆ Connect PC or 2nd HMI via VNC
- ◆ Password-protected programming



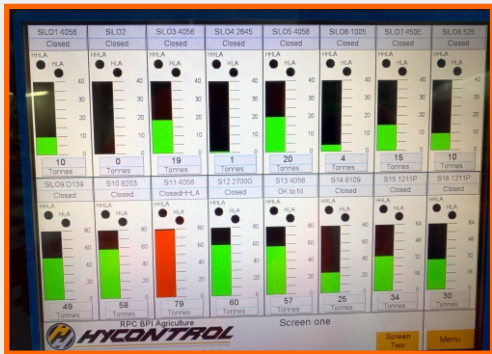
A Hycontrol engineer configures a HMI display via a connected laptop

## TECHNICAL DATA

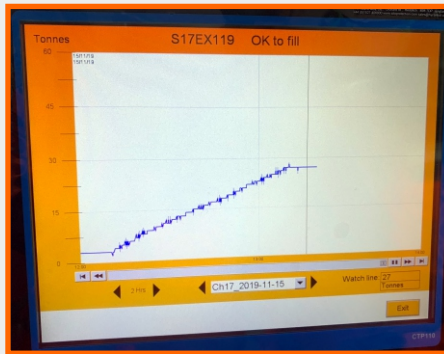
SPECIFICATION	HMI SYSTEM
Power supply	100 – 240 V AC
Display	10" touch-sensitive screen
Channel options	8 channel (1 input unit) 16 channel (2 input units) 24 channel (3 input units) 32 channel (4 input units)
Inputs per unit	8x 4-20 mA (analogue) / 8x digital <i>Total of 32 combinations</i>
Alarm configuration	Up to 5x alarm units (including 1x remote unit) Alarm 1 output for digital input HLA and HHLA outputs Mute switches for each alarm unit
Alarm events	Alarm 1 / HHLA / HLA / LLA (enabled / disabled per input)
Programmable information	Scales Titles Units Alarm levels
Logging	Enable / disable per input
CSV backup	Daily / weekly / monthly

# EXAMPLE DISPLAY SCREENS

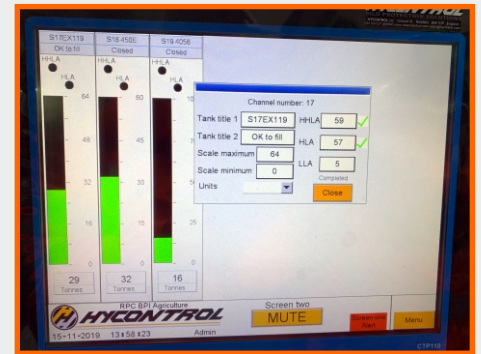
The Hycontrol HMI System offers a range of screens for information display as well as set-up and system administration. Many elements (such as channel names and units) of these displays can be customised to the requirements of the user. Examples of some of these displays are pictured below.



Contents display for the maximum screen number of 16 tanks, visually represented in bar graph form with calculated tonnage underneath.

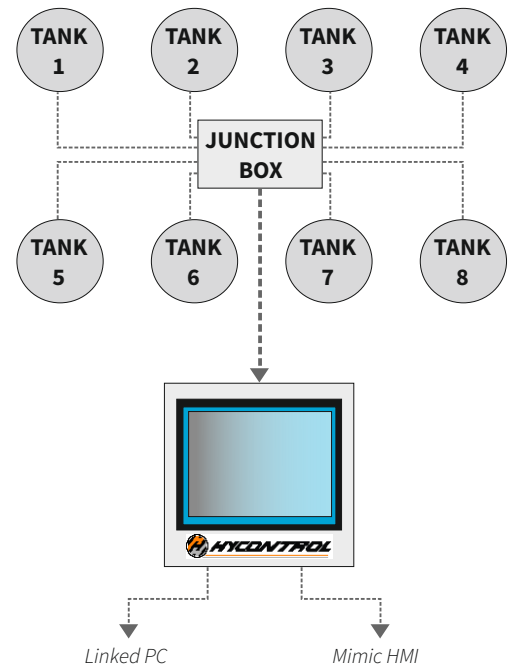
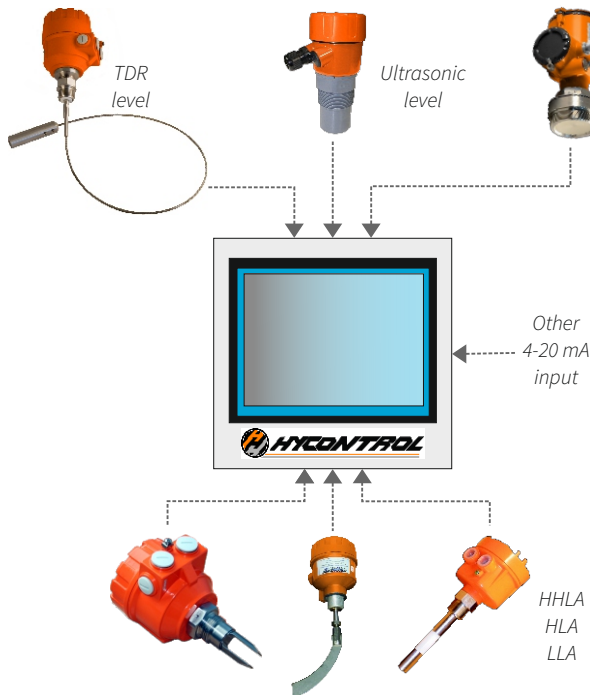


A line graph tracking the contents of a single tank over time. Here you can see the level rising during a filling operation.



Setting the parameters of an individual level measurement channel display. A keyboard appears on-screen for numeric and text entry.

## SYSTEM SCHEMatics - FLEXIBLE AND ADAPTABLE



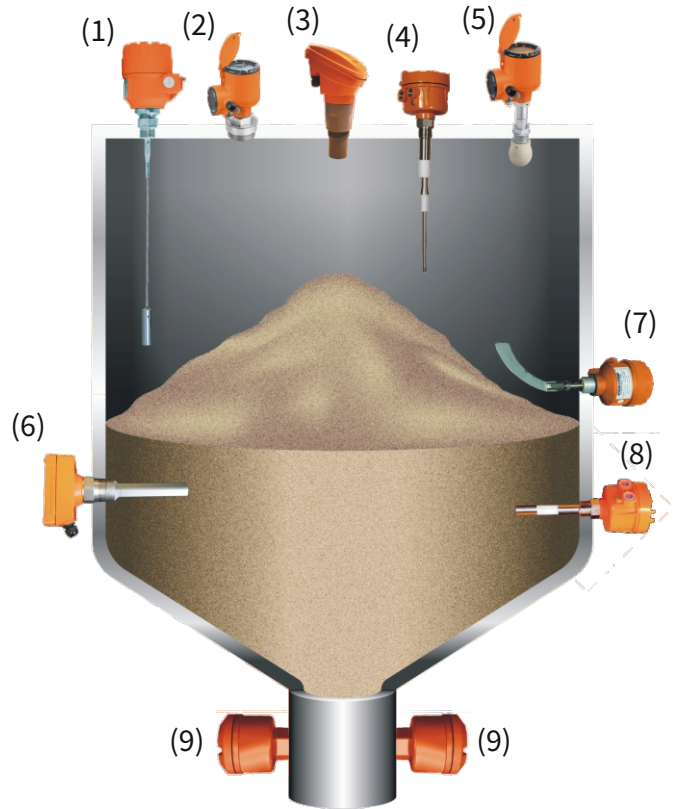
## ABOUT HYCONTROL

Hycontrol has been at the forefront of level control and measurement technology for over thirty-five years, providing effective solutions for diverse applications across a wide range of industries ranging from quarrying to food; from nuclear power to chemical; and from animal feed to waste recycling. From our manufacturing base in Redditch, Worcestershire, we have been trusted to oversee thousands of applications across the UK and around the world.

We understand the consequences of inaccurate or unreliable level systems, and therefore each Hycontrol installation is tailored precisely to match your application. Our goal is simple: to provide the best-engineered solution - *without compromise*. Hycontrol is a leading force in the manufacture and supply of advanced level solutions.

## Product Range for Solids:

- (1) TDR radar for solids
- (2) 80 GHz FMCW radar
- (3) 2-wire ultrasonic transmitter
- (4) RF admittance level switch
- (5) 24 GHz FMCW radar
- (6) Vibrating level probe
- (7) Rotary paddle switch
- (8) Capacitance level switch
- (9) Microwave flow & blockage switch



## Product Range for Liquids:

- (1) Bypass level indicator
- (2) 80 GHz FMCW radar
- (3) Foam control system
- (4) 24 GHz FMCW radar
- (5) 2-wire ultrasonic transmitter
- (6) TDR radar for liquids
- (7) Capacitance level switch
- (8) RF admittance level switch
- (9) Tuning fork vibrating level switch

