

IDPlus 961 devices are controllers with 1 relay output, 1 temperature regulation sensor and 1 multifunctional Digital/Temperature input. Temperature control and compressor start/stop, plus natural defrost on compressor stop. Heating function: the controller can also be used as a simple ON/OFF thermostat for heating applications.

IDPlus 961 User Interface



IDPlus 961

The Digital input (D.I.) can be used for:

- Energy saving
- Deep Cooling
- Defrost activation
- Pressure Switch
- Door Switch
- Standby
- HACCP alarms
- External Alarm

| KEYS | |
|---|--|
| UP Press and release Scroll menu items Increases values Press for at least 5 sec Activates the Manual Defrost function | STANDBY (ESC) Press and release Returns to the previous menu level Confirms parameter value Press for at least 5 sec Activates the Standby function (when outside the menus) |
| DOWN Press and release Scroll menu items Decrease values Press for at least 5 sec Function can be configured by the user (par. H32) | SET (ENTER) Press and release Displays alarms (if active) Opens Machine Status menu Press for at least 5 sec Opens Programming menu Confirm commands |

| LEDs | |
|--|---|
| REDUCED SET / ECONOMY LED Flashing: economy Setpoint active Quick flashing: access to level2 parameters Off: otherwise | ALARM LED Permanently on: alarm active Flashing: alarm acknowledged Off: otherwise |
| COMPRESSOR LED Permanently on: compressor active Flashing: a delay, a protection or a locked start-up Off: otherwise | DEFROST LED Permanently on: defrost active Flashing: manual or D.I. activation Off: otherwise |
| 1 HEAT STATUS LED Permanently on: compressor in HEAT Off: otherwise | 2 STATUS LED Flashing manual or D.I. activation Deep Cooling Off: otherwise |
| °C LED Permanently on: °C setting (dro = 0) Off: otherwise | °F LED Permanently on: °F setting (dro = 1) Off: otherwise |
| * To activate the LOC function: - enter the "Basic Commands" menu by pressing set key - press key (1) and (Up) within 2 seconds. If the LOC function is Active and you try to enter the "Programming" menu, the text LOC appears. If this happens, the parameters are still displayed but cannot be edited. To disable the keypad lock, repeat the aforementioned procedure. | |
| * When switched on, the device performs a Lamp Test, the display and LEDs will flash for several seconds to check that they all function correctly. | |

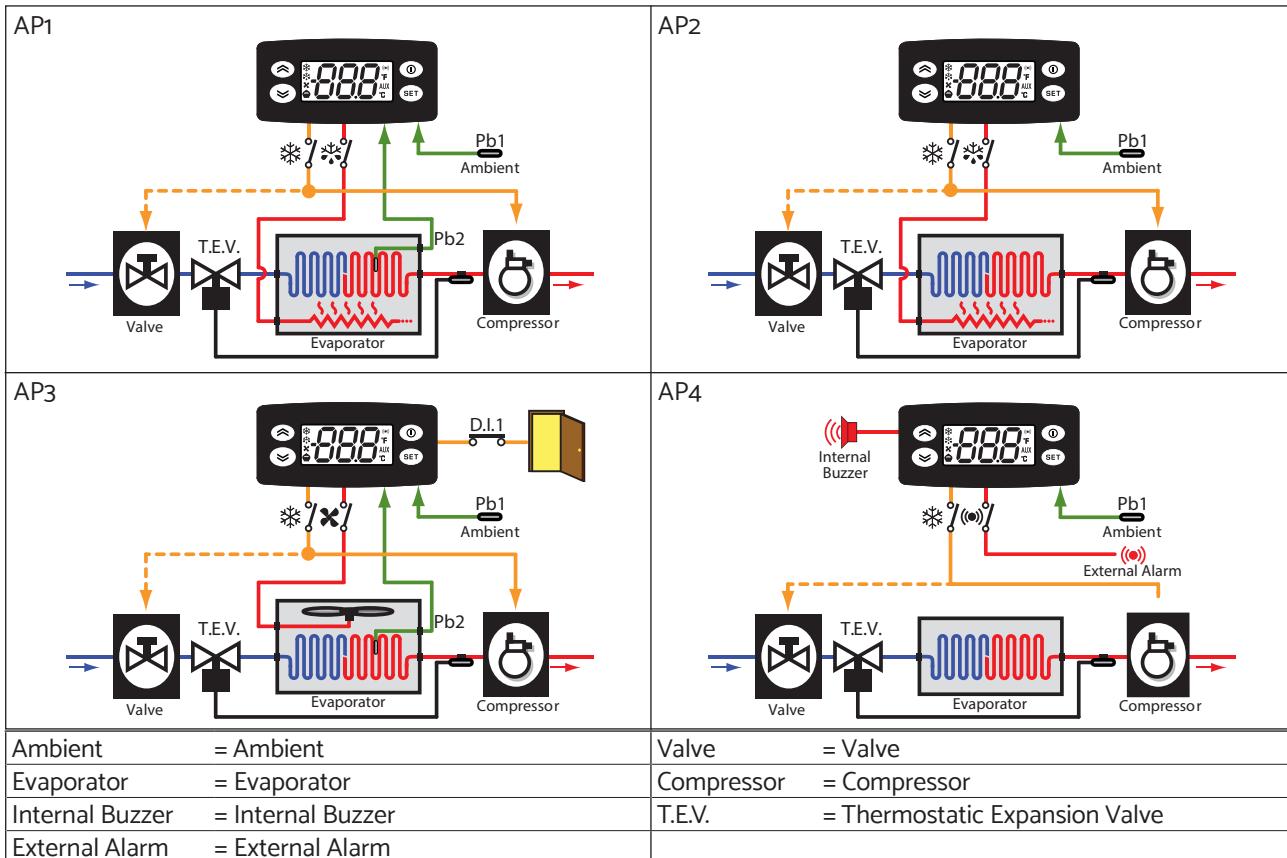


TABLE OF 'USER' MENU PARAMETERS (IDPlus 961)

| PAR. | DESCRIPTION | RANGE | AP1 | AP2 | AP3 | AP4 | M.U. |
|------|--|----------------|-------|-------|-------|-------|-------|
| SET | Temperature control Setpoint | LSE ... HSE | 0.0 | 0.0 | 0.0 | -2.0 | °C/F |
| DIF | Compressor relay activation differential | 0.1 ... 30.0 | 2.0 | 2.0 | 2.0 | 0.1 | °C/F |
| HSE | Maximum value that can be assigned to the Setpoint | LSE ... 302 | 99.0 | 140 | 140 | 5.0 | °C/F |
| LSE | Minimum value that can be assigned to the Setpoint | -58.0 ... HSE | -50.0 | -55.0 | -55.0 | -10.0 | °C/F |
| DIT | Interval between the start of two consecutive defrost cycles | 0 ... 250 | 6 | | | 8 | hours |
| DET | Defrost timeout | 1 ... 250 | 30 | | | 30 | min |
| HAL | Maximum temperature alarm | LAL ... 150 | 50.0 | 150 | 150 | 50.0 | °C/F |
| LAL | Minimum temperature alarm | -50.0 ... HAL | -50.0 | -50.0 | -50.0 | -50.0 | °C/F |
| SA3 | Probe 3 alarm Setpoint | -50.0 ... 150 | | | | 70.0 | °C/F |
| LOC | Basic commands modification lock | n/y | n | n | n | n | flag |
| PS1 | PPassword 1 for access to QUICK menu parameters | 0 ... 250 | 0 | 0 | 0 | 0 | num |
| CA1 | Calibration1. Value to be added to the value read by probe 1 | -12.0 ... 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | °C/F |
| CA3 | Calibration3. Value to be added to the value read by probe 3 | -12.0 ... 12.0 | | | | 0.0 | °C/F |
| DDL | Display mode during defrost | 0/1/2 | 0 | | | 0 | num |
| LDD | Display lock disabling timeout. 0 = function disabled | 0 ... 255 | 30 | | | 30 | min |
| H43 | Probe 3present | n/y | | | y | flag | |
| REL | firmware release. Reserved: read-only parameter | / | / | / | / | / | / |
| TAB | tAble of parameters. Reserved: read-only parameter | / | / | / | / | / | / |

TABLE OF 'INSTALLER' MENU PARAMETERS (IDPlus 961)

| PAR. | DESCRIPTION | RANGE | AP1 | AP2 | AP3 | AP4 | M.U. |
|---------------------------------|---|--------------|-------|-------|-------|-------|-------|
| SEt | Temperature control Setpoint. | LSE ... HSE | 0.0 | 0.0 | 0.0 | -2.0 | °C/F |
| COMPRESSOR ("CP" folder) | | | | | | | |
| diF | diFerential. Compressor relay activation differential. | 0,1..30,0 | 2.0 | 2.0 | 2.0 | 0.1 | °C/F |
| HSE | Higher SEt. Maximum value that can be assigned to the Setpoint. | LSE...302 | 99.0 | 140 | 140 | 5.0 | °C/F |
| LSE | Lower SEt. Minimum value that can be assigned to the Setpoint. | -58.0...HSE | -50.0 | -55.0 | -55.0 | -10.0 | °C/F |
| OSP | Temperature value to be added to the Setpoint if reduced set enabled (Economy function). | -30.0...30.0 | 3.0 | 3.0 | 0.0 | 0.0 | °C/F |
| Hc | Control mode.C(0) = Cold,H (1) = Hot. | C/H | C | C | H | C | flag |
| Ont | Controller on time for faulty probe. if Ont = 1 and OFt= 0, the compressor remains on, if Ont=1 and OFt > 0 it runs in duty cycle mode. | 0 ... 250 | 0 | 0 | 0 | 0 | min |
| OFt | Controller off time for faulty probe. if OFt=1 and Ont = 0, the controller remains off; if OFt=1 and Ont > 0, it operates in duty cycle mode. | 0 ... 250 | 1 | 1 | 1 | 1 | min |
| dOn | Compressor relay activation delay after request. | 0 ... 250 | 0 | 0 | 0 | 0 | secs |
| dOF | Delay after switching off and subsequent activation. | 0 ... 250 | 0 | 0 | 0 | 0 | min |
| dbi | Delay between two consecutive compressor activations. | 0 ... 250 | 0 | 0 | 0 | 0 | min |
| OdO | Delay in activating outputs after the instrument is switched on or after a power failure.O = not active. | 0 ... 250 | 0 | 0 | 0 | 0 | min |
| dcS | Deep Cooling cycle Setpoint. | -58.0..302 | 0.0 | 0.0 | 0.0 | 0.0 | °C/F |
| tdc | Deep Cooling cycle duration. | 0 ... 255 | 0 | 0 | 0 | 0 | min |
| dcc | Defrost activation delay after a Deep Cooling cycle. | 0 ... 255 | 0 | 0 | 0 | 0 | min |
| DEFROST ("dEF" folder) | | | | | | | |
| dit | Interval between the start of two consecutive defrost cycles. | 0 ... 250 | 6 | 0 | 0 | 8 | hours |
| dCt | Selection of count mode for the defrost interval. 0 = compressor running time, 1 = appliance running time, 2 = A defrost cycle is run at each compressor stop. | 0/1/2 | 1 | 1 | 1 | 1 | num |

| PAR. | DESCRIPTION | RANGE | AP1 | AP2 | AP3 | AP4 | M.U. |
|---|--|--------------|-------|-------|-------|-------|-------|
| DOH | Delay for start of first defrost after request. | 0 ... 59 | 0 | 0 | 0 | 0 | min |
| DET | Defrost timeout, determines the maximum defrost duration. | 1 ... 250 | 30 | 1 | 1 | 30 | min |
| DPO | Determines whether the instrument must enter defrost mode at start-up. n (0) = no,y (1) = yes. | n/y | n | n | n | n | flag |
| ALARMS ("AL" folder) | | | | | | | |
| ATT | Can be used to select absolute (Att=0) or relative (Att=1) values for HAL and LAL parameters. | 0/1 | 0 | 0 | 0 | 0 | num |
| AFD | Alarm differential. | 1.0 ... 50.0 | 2.0 | 2.0 | 2.0 | 2.0 | °C/F |
| HAL | Maximum temperature alarm. | LAL...302 | 50.0 | 150 | 150 | 50.0 | °C/F |
| LAL | Minimum temperature alarm. | -58.0...HAL | -50.0 | -50.0 | -50.0 | -50.0 | °C/F |
| PAO | Alarm exclusion time after re-activation following a power failure. | 0 ... 10 | 0 | 0 | 0 | 0 | hours |
| DAO | Temperature alarm exclusion time after defrost. | 0 ... 999 | 0 | 0 | 0 | 0 | min |
| OAO | Alarm signalling delay after disabling of digital input. | 0 ... 10 | 0 | 0 | 0 | 0 | hours |
| TDO | Delay in door open alarm activation. | 0 ... 250 | 0 | 0 | 0 | 0 | min |
| TAO | Time delay for temperature alarm indication. | 0 ... 250 | 0 | 0 | 0 | 0 | min |
| RLO | An external alarm locks the controllers. n (0) = does not lock,(1) = locks. | n/y | n | n | n | n | flag |
| SA3 | Probe 3 alarm Setpoint. | -58.0...302 | 0.0 | 0.0 | 0.0 | 70.0 | °C/F |
| DA3 | Probe 3 alarm differential. | 1.0 ... 50.0 | 1.0 | 1.0 | 1.0 | 10.0 | °C/F |
| LIGHTS & DIGITAL INPUTS ("Lit" folder) | | | | | | | |
| DOD | Digital input for switching off utilities. 0 = disabled, 1 = disables fans, 2 = disables the compressor,3 = disables fans and compressor. | 0/1/2/3 | 0 | 0 | 0 | 0 | num |
| DAD | Activation delay for digital input. | 0 ... 255 | 0 | 0 | 0 | 0 | min |
| DCO | Compressor deactivation delay after door opened. | 0 ... 255 | 1 | 1 | 1 | 1 | min |
| PRESSURE SWITCH ("PrE" folder) | | | | | | | |
| PEN | Number of errors allowed per maximum/minimum pressure switch input. | 0 ... 15 | 0 | 0 | 0 | 0 | num |
| PEI | Minimum/maximum pressure switch error count interval. | 1 ... 99 | 1 | 1 | 1 | 1 | min |
| PET | Delay in activating compressor after pressure switch deactivation. | 0 ... 255 | 0 | 0 | 0 | 0 | min |

| PAR. | DESCRIPTION | RANGE | AP1 | AP2 | AP3 | AP4 | M.U. |
|-------------------------------------|---|--------------|-----|-----|-----|-----|-------|
| COMMUNICATION ("Add" folder) | | | | | | | |
| PTS | Communication protocol selection:t(0) = Televi, d (1) = Modbus. | t/d | t | t | t | t | flag |
| DEA | Index of the device inside the family (valid values from 0 to 14). | 0 ... 14 | o | o | o | o | num |
| FAA | Device family (valid values from 0 to 14). | 0 ... 14 | o | o | o | o | num |
| PTY | Modbus parity bit:n (0) = none, E (1) = even, o (2) = odd. | n/E/o | n | n | n | n | num |
| STP | Modbus stop bit. 1b(0) = 1 bit, 2b (1) = 2 bit. | 1b/2b | 1b | 1b | 1b | 1b | flag |
| DISPLAY ("diS" folder) | | | | | | | |
| LOC | Basic commands modification lock. It is still possible to enter parameter programming mode and modify them.n (0) = no, y (1) = yes. | n/y | n | n | n | n | flag |
| PS1 | PAssword: ifPS1≠0 is the access key to "User" parameters. | 0 ... 250 | o | o | o | o | num |
| PS2 | PAssword: ifPS2≠0 is the access key to "Installer" parameters. | 0 ... 250 | 15 | 15 | 15 | 15 | num |
| NDT | Display with decimal point.n (0) = no,y (1) = yes. | n/y | y | y | y | y | flag |
| CA1 | Calibration 1. Temperature value to be added to the Pb1 value. | -12.0...12.0 | 0.0 | 0.0 | 0.0 | 0.0 | °C/F |
| CA3 | Calibration 3. Temperature value to be added to the Pb3 value. | -12.0...12.0 | 0.0 | 0.0 | 0.0 | 0.0 | °C/F |
| ddL | Display mode during defrost. 0 = display temperature recorded by Pb1, 1 = lock recorded Pb1 value at the start of the defrost cycle, 2= display the "dEF" label. | 0/1/2 | o | o | o | o | num |
| Ldd | Timeout value for display unlock - dEF label | 0 ... 255 | 30 | 30 | 30 | 30 | min |
| dro | Select the unit of measurement used when displaying the temperature recorded by the probes. (0 = °C, 1 = °F). NOTEswitching between °C and °F or vice-versa DOES NOT modify the SEt, dIF values, etc. (e.g. Setpoint=10°C becomes 10°F) | 0/1 | o | o | o | o | flag |
| ddd | Selects type of value to display. 0 = Setpoint,1 = probe Pb1,2 = probe Pb23 = probe Pb3 | 0/1/2/3 | 1 | 1 | 1 | 1 | num |
| HACCP ("HCP" folder) | | | | | | | |
| SHH | Maximum HACCP alarm signals threshold. | -55.0...150 | 0.0 | 0.0 | 0.0 | 0.0 | °C/F |
| SLH | Minimum HACCP alarm signals threshold. | -55.0...150 | 0.0 | 0.0 | 0.0 | 0.0 | °C/F |
| drA | Minimum time spent in critical range for the event to be recorded. After this a HACCP alarm will be triggered and logged. | 0 ... 99 | o | o | o | o | min |
| drH | HACCP alarm reset time after last reset. | 0 ... 250 | o | o | o | o | hours |

| PAR. | DESCRIPTION | RANGE | AP1 | AP2 | AP3 | AP4 | M.U. |
|---|--|-----------|-----|-----|-----|-----|------|
| H50 | Enable HACCP and alarm relay function.1=HACCP alarms NOT enabled, 1 = HACCP alarms enabled and alarm relay NOT enabled, 2 = HACCP alarms enabled and alarm relay enabled. | 0/1/2 | o | o | o | o | num |
| H51 | HACCP alarm exclusion time. | 0 ... 250 | o | o | o | o | min |
| CONFIGURATION ("CnF" folder) ►►If one or more parameters present in this folder are changed, the controller MUST be powered-off and than powered-on. | | | | | | | |
| Hoo () | Probe type selection. 0 = PTC,1 = NTC2 = PT1000. | 0/1/2 | 1 | 1 | 1 | 1 | num |
| H11 | Configuration of digital input 1/polarity. 0 = disabled, ±1 = defrost, ±2 = economy Setpoint,±3= AUX,±4 = door switch,±5= external alarm, ±6 = Standby, ±7 = pressure switch,±8 = Deep Cooling,±9 = disable HACCP alarm logging. NOTE• the "+" sign indicates that the input is active if the contact is closed. • the "-" sign indicates that the input is active if the contact is open. | -9 ... +9 | o | o | o | o | num |
| H21 | (IDPlus 961 only). Configurability of digital output 1 (※). 0 = disabled, 1= compressor,2= defrost,3= fans,4= alarm, 5= AUX,6= Standby. | 0 ... 6 | 1 | 1 | 1 | 1 | num |
| H22 | (IDPlus 902 only). Configurability of digital output 1 (※). Same as H21. | 0 ... 6 | 1 | 1 | 1 | 1 | num |
| H31 | Configurability of UP key. 0=disabled,1 =defrost, 2=not used, 3=economy Setpoint, 4=Standby, 5=reset HACCP alarms,6=disable HACCP alarms, 7=Deep Cooling. | 0 ... 7 | 1 | o | o | 1 | num |
| H32 | Configurability of DOWN key. Same as H31. | 0 ... 7 | o | o | o | o | num |
| H43 | Probe Pb3 present. n (0) = not present,y (1) = present. | n/y | n | n | n | y | flag |
| reL | Device version. Read-only parameter. | / | / | / | / | / | / |
| tAb | tAble of parameters. Reserved: read-only parameter. | / | / | / | / | / | / |
| COPY CARD ("FPr" folder) | | | | | | | |
| UL | Programming parameter transfer from instrument to Copy Card. | / | / | / | / | / | / |
| Fr | Format Copy Card. Erase all data contained in the Copy Card. NOTEif parameter "Fr" is used, the data entered will be permanently lost. This operation cannot be cancelled. | / | / | / | / | / | / |
| FUNCTIONS ("FnC" folder) | | | | | | | |
| rAP | Reset pressure switch alarms | / | / | / | / | / | / |
| rES | Reset HACCP alarms | / | / | / | / | / | / |