



PALLETIZING CEMENT BAGS



LOADING CNC MACHINE



PAINTING PARTS



LOADING/ UNLOADING WAFERS



WAREHOUSING

GIVE UNMANNED CELLS A VOICE

REPETITIVE EFFORT

Robotics are being used more frequently for jobs where there is an advantage with their uncomplaining nature. Jobs that involve heavy lifting, dirty environment, meaningless repetitive motion all find the hard working Robot happily at the task. They work 24/7 without a coffee or bathroom break. They seldom take sick leave and are always there waiting for their assignment.

AN INVESTMENT

The cost of employing a Robot can be very expensive. Not just the investment in the Robot, but also in associated tooling, programming and set up. The investment is justified through the constant production in high volume effort. If for some reason the robot is unable to perform the task required, the down time for each minute it is inoperable can be very expensive.

LET YOUR ROBOT TALK TO YOU PERSONALLY

Robots are only electro-mechanical devices and the associated machines are also electro-mechanical and as such are prone to a malfunction. Often, information is available prior to a malfunction. This can be a drop or rise in pressure, current or speed. It can be a product jam up. It can be an alarm that precedes a failure. Your robot can warn you of pending problems. Often turning on a tower light or sounding a horn is not enough. Your unmanned cell can text message your cell phone and let you know of a problem. It can even determine who's shift it is and call that person.

COMMUNICATE

An industrial control called the Tbox provides a means of turning alarm signals into text messages. The Tbox accepts 4 digital inputs (contact closures) and 2 analog inputs (0-20mA or 0-10 vdc) and includes 4 relay outputs. Any input can result in a text message and/ or a relay output. Since the purpose of employing a robot is to free up human workers for more demanding challenges, the Tbox provides extra freedom for maintenance personnel. Programming can define the hours of each shift such that the appropriate person receives the text message.

TALK TO THE TBOX

Through GPRS (Global Packet Radio Service)/ GSM (Global Systems for Mobile Communications), a Mobile Data Service, the Tbox can be programmed remotely (change time, cell phone number, logic) to update and also read the conditions of inputs (digital and analog) as well as output relays. This means it will text message you its problems and you can monitor its conditions. You can send it a text message and have a relay transferred. You have immediate contact with your cell 24/7.

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